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Pp. 2465
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'Ολύμπια Δώματα

O R, A N

ALMANACK

For the YEAR of

Our LORD GOD, 1783;

Being the Third after

BISSEXTILE, or LEAP-YEAR,

And from the World's Creation, 5787.

Wherein is Contained the Lunations, Conjunctions, Aspects, and Effects of the Planets; and Increase, Decrease, and Length of the Days and Nights; with the Rising, Southing, and Setting of the Planets and fixed Stars throughout the Year; whereby may be known the exact Hour of the Night at all Times, when either the Moon or Stars are seen.

Calculated according to Art, and referred to the Horizon of the ancient and renowned Borough Town of Stamford (formerly a famous University) whose Latitude is 52 Deg. 20 Min. fitting all the middle Counties of ENGLAND, and, without sensible Error, the whole Kingdom.



Non est è Terris mollis ad Astra¹¹ Via.

By TYCHO WING, Philomath.

L O N D O N :

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And sold by J. WILKIE, at their Hall, in Ludgate-Street.

[Price, stitched, NINE PENCE.]

Ephemerides. &c.

Common NOTES and Moveable FEASTS.

Dominical Letter	- - E	Septuagesima Sund.	Feb. 16
Golden Number	- - 17	Shrove Sunday	Mar. 2
Epact	- - 26	Easter Day	Apr. 20
Cycle of the Sun	- - 28	Whit-Sunday	June 8
Roman Indiction	- - 1	Trinity Sunday	June 15
Number of Direction	- 30	Advent Sunday	Nov. 30

A CATALOGUE of the Most Reverend, Right Reverend, and Reverend, the Archbishops, Bishops, and Deans, exercising Ecclesiastical Jurisdiction in England, 1783.

<i>Archbishops.</i>	<i>Deans Names.</i>	<i>Sees Names.</i>
H. Dr. Fr. Cornwallis	Dr. George Horne	Canterbury
Dr. Wm. Markham	Dr. John Fountayne	York
<i>Bishops.</i>		
Dr. Robert Lowth	Dr. Thomas Thurlow	London
Hon. Dr. John Egerton	Hon. Wm. Digby	Durham
Dr. North	Dr. Newton Ogle	Winchester
Lord James Beauclerk	Dr. Nat. Wetherell	Hereford
Hon. Dr. James Yorke	Dr. William Cooke	Ely
Sir Wm. Ashburnham	Dr. Charles Harward	Chichester
Hon. Dr. S. Barrington	Dr. Rowney Noel	Salisbury
Dr. Philip Yonge	Dr. Philip Lloyd	Norwich
Dr. Lewis Bagot	Dr. J. Hallam	Bristol
Dr. Charles Mofs	Lord Fran. Seymour	Bath and Wells
Dr. Jonathan Shipley	Mr. Shipley	St. Asaph
Dr. Edmund Law	Dr. Thomas Wilfon	Carlisle
	Dr. Adams, Archdeac.	Landaff
Dr. John Hinchcliffe	Dr. Tarrant	Peterborough
Dr. Richard Hurd	Dr. Foley	Worcester
Dr. Samuel Hallifax	Dr. Josiah Tucker	Gloucester
Dr. John Thomas	Dr. Dampier	Rocheſter
Dr. Cornwallis	Dr. Proby	Litchf. and Cov.
Dr. John Moore	Dr. Thomas Lloyd	Bangor
Dr. Beilby Porteus	Dr. William Smith	Cheſter
Dr. John Butler	Dr. Lewis Bagot	Oxford
Dr. John Roſs	Dr. Jeremiah Milles	Exeter
Dr. Thomas Thurlow	Dr. Richard Cuſt	Lincoln
Dr. John Warren	Mr. Wollaſton, Prec.	St. David's
	Dr. John Thomas	Westminſter
Dr. George Maſon		Sodor and Man
	Hon. John Harley	Windſor

A TABLE of TERMS and their Returns.

HILARY Term begins January 23—ends February 12.

Returns or Essoign Days.				Exc.	Ret.	App.	W. D.
In Eight Days of St. Hilary, - - -	Jan. 20	21	22	23	Thursf.		
From the Day of St. Hilary in 15 Days,	27	23	29	30	Thursf.		
On the Morrow of the Purif. blest. Mary, Feb. 3	4	5	6	Thursf.			
In eight Days of the Purif. of blessed Mary,	9	10	11	12	Wedn.		

EASTER Term begins May 7—ends June 2.

From the Day of Easter in 15 Days,	May 4	5	6	7	Wedn.
From the Day of Easter in 3 Weeks, - - -	11	12	13	14	Wedn.
From the Day of Easter in 1 Month, - - -	18	19	20	21	Wedn.
From the Day of Easter in 5 Weeks, - - -	25	26	27	28	Wedn.
On the Morrow of the Ascension, - - -	30	31	J. 1	2	Mond.

TRINITY Term begins June 20—ends July 9.

On the Morrow of the Holy Trinity, June 16	17	18	20	Friday.
In Eight Days of the Holy Trinity, - - -	22	23	24	Wedn.
In 15 Days of the Holy Trinity, - - -	29	30	J. 1	2 Wedn.
In 3 Weeks of the Holy Trinity, - - -	July 6	7	8	9 Wedn.

MICHAELMAS Term begins November 6—ends November 28.

On the Morrow of All Souls, - - -	Nov. 3	4	5	6	Thursf.
On the Morrow of St. Martin, - - -	12	13	14	15	Satur.
In Eight Days of St. Martin, - - -	18	19	20	21	Friday
In 15 Days of St. Martin, - - -	25	26	27	28	Friday

N.B. No Sittings in Westminster-Hall upon *Ascension-Day*, *Midsummer-Day*, and the 2d of *February*.The *Exchequer* opens Eight Days before any Term begins, except *Trinity*, before which it opens but Four Days.

Note, The First and Last Days of every Term, are the First and Last Days of Appearance.

The Names of the Learned JUDGES in the Law.

The Rt. Hon. Ed. Lord Thurlow, Lord High Chancellor of G. Britain,
Right Hon. Sir Thomas Sewell, Knt. Master of the Rolls.I. In the { Rt. Hon. W. Earl of Mansfield, L.C.J. Edw. Willes, Esq.
K. Bench. { Sir Wm. Henry Ashurst, Knt. Fran. Buller, Esq.II. In the { Rt. Hon. Al. Ld. Loughborough, L.C.J. H. Gould, Esq.
Co. Pleas. { Sir Geo. Nares, Knt. John Heath, Esq.IV. In the { Sir John Skynner, Knt. L. C. B. Sir James Eyre, Knt.
Exchequer. { Sir Beaumont Hotham, Knt. Sir Rich. Perryn, Kt.

Lloyd Kenyon, Esq. Att. Gen. Pepper Arden, Esq. Sollic. Gen.

The REGAL Table.

The Year, Month, and Day, when each King and Queen began to reign, accounting the Year to be- gin Jan. 1.			Length of each Reign.			Number of Years expired since their Reigns ended.	
Kings Names	began to reign	Y.	M.	D.	beg	Kings Names	
William I.	1066 Oct. 14	20	10	26	696	William	1
William II.	1087 Sept. 9	12	10	24	683	William	2
Henry I.	1100 Aug. 2	35	3	29	648	Henry	1
Stephen	1135 Dec. 1	18	10	24	629	Stephen	
Henry II.	1154 Oct. 25	34	8	11	594	Henry	2
Richard I.	1189 July 6	9	9	0	584	Richard	1
John	1199 April 6	17	6	13	567	John	
Henry III.	1216 Oct. 19	56	0	28	511	Henry	3
Edward I.	1272 Nov. 16	34	7	21	476	Edward	1
Edward II.	1307 July 7	19	6	18	456	Edward	2
Edward III.	1327 Jan. 25	50	4	27	406	Edward	3
Richard II.	1377 June 21	22	3	8	384	Richard	2
Henry IV.	1399 Sept. 29	13	5	20	370	Henry	4
Henry V.	1413 Mar. 20	9	5	11	361	Henry	5
Henry VI.	1422 Aug. 31	38	6	4	322	Henry	6
Edward IV.	1461 Mar. 4	22	1	5	300	Edward	4
Edward V.	1483 April 9	0	2	13	300	Edward	5
Richard III.	1483 June 22	2	2	0	298	Richard	3
Henry VII.	1485 Aug. 22	23	8	0	274	Henry	7
Henry VIII.	1509 April 22	37	9	6	236	Henry	8
Edward VI.	1547 Jan. 28	6	5	8	230	Edward	6
Q. Mary I.	1553 July 6	5	4	11	225	Q. Mary	
Q. Elizabeth	1558 Nov. 17	44	4	7	180	Q. Elizabeth	
James I.	1603 Mar. 24	22	0	3	158	James	1
Charles I.	1625 Mar. 27	23	10	3	134	Charles	1
Charles II.	1649 Jan. 30	36	0	7	98	Charles	2
James II.	1685 Feb. 6	4	0	7	94	James	2
Will. 3. & M.	1689 Feb. 13	13	0	23	81	William	3
Q. Anne	1702 Mar. 8	12	4	24	69	Q. Anne	
George I.	1714 Aug. 1	12	10	10	56	K. George	1
George II.	1727 June 11	33	4	14	23	K. George	2
George III.	1760 Oct. 25	Crowned Sept. 22, 1761.					

The Use of the following TABLE of the Moon's Southing, to find the Time of High-Water, and the Hour of the Night.

I. To find the Time of High-Water in most Parts of ENGLAND.

Take the Time of the Moon's Southing for the Day proposed, and to that add the Hours and Minutes which stand against the Place required in the following Table of Sea-Coasts, and the Sum will be the Time of High-Water at the Place required on that Day.

A Table of the Sea Coasts.

H. M.

Portsmouth, Queenborough, Southampton,	—	0	00
Rochester, Winchelsea, Flushing,	—	0	45
Downs, Gravesend, Ramkins, Guernsey,	—	1	30
Denbigh, Bell-Isle, Holy-Isle, Downs-Road,	—	2	15
London, Tinnmouth, Whitby, Hartlepool,	—	3	00
Scarborough, Berwick, Flushing, Staples,	—	3	45
Flamborough, Humber, Bridlington-Bay,	—	4	30
Phymouth, Ramsay, Newcastle, Severn,	—	5	15
Lynn, Fosdyke, Hull, Weymouth, Dartmouth, Cross-Keys,	—	6	00
Boston, Start-Point, Foulness, Bristol-Key,	—	6	45
Bridgewater, Milford Haven, Lizard, Wintertown,	—	7	30
Yarmouth, Isle of Wight, the Needles,	—	8	15
Isle of Man, Orkney, Pool, South-Foreland,	—	9	10
Dover, Harwich, Orfordness, Bullein,	—	10	10
Rye, Solebay, Margate-Road,	—	11	15

II. To find the Hour of the Night by the Shadow of the Moon on a Sun-Dial.

1. When the Shadow falls precisely on the Hour 12, then the Time of the Moon's Southing, found in the preceding Table, is the exact Time of Night. But in other Cases,

2. If the Shadow wants of 12, see how much it wants of it; which Time, subtracted from that of the Moon's Southing, leaves the Time of Night. Note, You must add 12 Hours to the Moon's Southing, if Need be.

3. If the Shadow has past 12, add the Time that it has past it to the Time of the Moon's Southing; the Sum will be the Time of Night required; abating 12 Hours from that Sum, if Need be.

A TABLE of the MOON'S SOUTHING, of excellent Use to

M D	January		February		March		April		May		June	
	h	m	h	m	h	m	h	m	h	m	h	m
1	10	m 1	11	m 48	10	m 33	11	m 42	11	m 56	1	a 8
2	11	7	0	a 43	11	24	0	a 26	0	a 43	2	0
3	0	a 14	1	34	0	a 12	1	11	1	31	2	50
4	1	17	2	19	0	57	1	57	2	22	3	38
5	2	14	3	3	1	41	2	45	3	14	4	24
6	3	6	3	46	2	25	3	34	4	6	5	8
7	3	53	4	30	3	9	4	25	4	56	5	51
8	4	36	5	13	3	56	5	17	5	44	6	33
9	5	18	6	1	4	44	6	8	6	30	7	17
10	5	59	6	49	5	34	6	58	7	14	8	3
11	6	42	7	40	6	26	7	46	7	59	8	54
12	7	26	8	32	7	18	8	33	8	43	9	49
13	8	12	9	23	8	10	9	18	9	29	10	50
14	9	0	10	13	8	59	10	3	10	19	11	57
15	9	51	11	3	9	47	10	50	11	13	morn	
16	10	42	11	50	10	34	11	38	morn		1	4
17	11	34	morn		11	20	morn		0	12	2	10
18	morn		0	35	morn		0	30	1	17	3	10
19	0	24	1	20	0	6	1	27	2	23	4	4
20	1	12	2	5	0	52	2	27	3	29	4	53
21	1	57	2	51	1	41	3	31	4	29	5	39
22	2	41	3	39	2	33	4	35	5	26	6	23
23	3	24	4	30	3	29	5	37	6	17	7	5
24	4	8	5	27	4	30	6	36	7	3	7	48
25	4	54	6	28	5	33	7	29	7	45	8	33
26	5	43	7	32	6	36	8	18	8	29	9	20
27	6	37	8	36	7	36	9	3	9	11	10	9
28	7	35	9	36	8	33	9	45	9	55	10	59
29	8	38			9	25	10	29	10	39	11	50
30	9	44			10	14	11	12	11	28	0 a 42	
31	10	47			11	0			0 a 17			

Spring Quarter begins - March 20 d. 5 h. 4 m. night.
 Summer Quarter begins - June 21 3 12 afternoon.
 Autumn Quarter begins - Sept. 23 4 49 morning.
 Winter Quarter begins - Dec. 21 9 13 night.

The Moon's Southing.

7

find the Time of High-Water, and the Hour of the Night.

M	July		August		September		October		November		December	
D	h	m	h	m	h	m	h	m	h	m	h	m
1	1	a 29	2	a 22	3	a 24	4	a 17	6	a 20	6	a 41
2	2	17	3	5	4	16	5	19	7	12	7	25
3	3	1	3	47	5	13	6	22	8	1	8	9
4	3	44	4	33	6	13	7	23	8	48	8	53
5	4	26	5	21	7	17	8	21	9	33	9	39
6	5	8	6	15	8	21	9	12	10	18	10	27
7	5	51	7	14	9	21	10	1	11	4	11	17
8	6	37	8	17	10	18	10	48	11	51	morn	
9	7	29	9	23	11	11	11	34	morn		0	8
10	8	26	10	28	morn		morn		0	41	1	0
11	9	29	11	29	0	0	0	20	1	31	1	51
12	10	36	morn		0	47	1	6	2	24	2	40
13	11	43	0	25	1	34	1	55	3	15	3	26
14	morn		1	16	2	20	2	47	4	6	4	9
15	0	47	2	4	3	9	3	38	4	54	4	50
16	1	46	2	51	3	58	4	31	5	39	5	31
17	2	39	3	37	4	48	5	23	6	23	6	11
18	3	28	4	22	5	40	6	12	7	5	6	53
19	4	13	5	9	6	32	7	0	7	47	7	38
20	4	57	5	58	7	23	7	46	8	29	8	27
21	5	41	6	49	8	13	8	30	9	14	9	22
22	6	26	7	40	9	1	9	13	10	2	10	23
23	7	12	8	32	9	47	9	56	10	55	11	29
24	8	1	9	23	10	30	10	40	11	54	0	a 36
25	8	52	10	11	11	14	11	27	0	a 57	1	39
26	9	43	10	58	11	57	0	a 18	2	3	2	39
27	10	34	11	42	0	a 42	1	13	3	7	3	34
28	11	24	0	a 26	1	29	2	13	4	8	4	24
29	0	a 11	1	8	2	21	3	17	5	3	5	10
30	0	57	1	51	3	17	4	21	5	54	5	55
31	1	40	2	37			5	21			6	39

VENUS is an Evening Star from the 4th of January till October the 22d, and then a Morning Star to the Year's End.

JUPITER is a Morning Star to the 20th of July, and after that an Evening Star till the End of the Year.

New Moon 3 day, at 8 morning.
 First Quarter 10 day, at 9 morning.
 Full Moon 18 day, at 2 afternoon.
 Last Quarter 26 day, at 3 morning.

M	Jupiter	Venus
D	rises	rises
1	8 m 3	8 m 6
7	7 41	sets
13	7 21	4 a 14
19	7 0	4 a 28
25	6 39	4 a 43

M	W	Holy Days, ☉ rises & sets	☉ rises & sets	☉'s Longit.	☉'s Declin.	Aspects and Weather
1	W	Circumcision	6m 32	15 17	27 s 27	♂ ♀ ♄ ♃ ♅ ♁
2	Th	Sun rises 8 4	7 54	0V S 29	28 28	Rain, wind, and snow.
3	F	Sun sets 3 57	☉ sets	15 40	27 22	
4	S		5 a 12	0 39	24 18	♂ ☉ ♀
5	E	S. aft. Christ.	6 43	15 17	19 42	Old Christ.-day
6	M	Epiph. 12th D.	8 12	29 27	14 8	
7	Tu		9 32	13 8	8 3	Dark cloudy air.
8	W	Lucian	10 48	26 19	1 49	
9	Th	Sun rises 7 58	morn	9 5	4 n 17	
10	F	Sun sets 4 3	0 21	30 10	3 3	
11	S		1 16	3 38	15 20	
12	E	S. aft. Epiph.	2 30	15 36	19 57	O.N. Year's Day
13	M	Cam. T. begins	3 44	27 28	23 44	Hilary. Plow M.
14	Tu	Oxf. T. begins	4 56	9 18	26 31	☉ in Ap. ☉ ☉
15	W		6 4	21 10	28 8	
16	Th	Sun rises 7 51	7 0	3 7	28 27	Gentle winds, in- clined to frost.
17	F	Old 12th Day	7 46	15 11	27 26	
18	S	Q. Ch. b. d. keeps	☉ rises	27 23	25 5	Prisca. ♂ ♀ ♀
19	E	S. aft. Epiph.	5 a 5	9 43	21 34	
20	M	Fabian	6 23	22 12	17 2	
21	Tu	Agnes	7 42	4 51	11 42	
22	W	Vincent	8 59	17 41	5 49	
23	Th	Hil. Term beg.	10 17	0 43	0 s 24	
24	F		11 36	13 59	6 44	More moderate for the season.
25	S	Conv. St. Paul.	morn	27 31	12 52	
26	E	S. aft. Epiph.	1 1	11 21	18 31	
27	M	Pr. Aug. Fr. bo.	2 29	25 28	23 17	
28	Tu		3 58	9 52	26 44	☉ in Perigeo.
29	W	Sun sets 4 28	5 23	24 31	28 27	
30	Th	K. Ch. I. mart.	6 31	9V S 17	28 10	
31	F		7 18	24 6	25 53	

Venus
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M D	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	4V 37	22 s 41	10 W 40	23 s 4	25 III 50	18 s 49	10 W 18	23 s 40
7	5 19	22 40	12 3 22	58	29 51 19	47	17 51 23	4
13	6 0 22	38	13 27 22	50	3 52 10	38	25 24 22	3
19	6 41	22 37	14 50 22	42	7 55 21	25	2 56 20	38
25	7 21	22 35	16 12 22	33	11 58 22	5	10 28 18	52

M D	☉'s		☉'s	Observations
	Longit.	Declin.		
1	11 W 4	23 s 0		Clock before the Sun 4 m. 7 sec.
2	12 6	22 55		Saturn rises 7 h. 19 m.
3	13 7	22 40		Jupiter rises 7 h. 56 m. morning.
4	14 8	22 43		Mars rises 4 h. 20 m. morning.
E 15	9 22	36		Venus rises 7 h. 51 m. morning.
6 16	10 22	20		Seven Stars south at 8 h. 22 m. afternoon.
7 17	12 22	22		
8 18	13 22	14		Day breaks 5 h. 56 min.
9 19	14 22	5		Day increased 20 minutes.
10 20	15 21	56		Saturn rises 6 h. 58 m. morning.
11 21	16 21	47		Jupiter rises 7 h. 37 m. morning.
E 22	17 21	37		Mars rises 4 h. 16 m. morning.
13 23	19 21	27		Venus sets 4 h. 14 m. afternoon.
14 24	20 21	17		
15 25	21 21	6		Clock before the Sun 9 m. 59 sec.
16 26	22 20	54		
17 27	23 20	43		Length of Day is 8 h. 22 min.
18 28	24 20	31		Seven Stars south at 7 h. 30 m. afternoon.
E 29	25 20	18		
20 0 26	20 5			☉ enters 1 h. 48 m. morning.
21 1 27	19 52			
22 2 28	19 38			Day breaks at 5 h. 42 m.
23 3 29	19 24			Days are increased 56 minutes.
24 4 30	19 10			Twilight ends at 6 h. 20 m.
25 5 31	18 55			Saturn rises at 6 h. 2 m. morning.
E 6 32	18 40			
27 7 33	18 24			Jupiter rises at 6 h. 32 m. morning.
28 8 34	18 9			Mars rises at 4 h. 11 m. morning.
29 9 35	17 53			Venus sets at 4 h. 53 m. afternoon.
30 10 36	17 36			
31 11 37	17 19			

New Moon 1 day, at 7 night.
 First Quarter 9 day, at 5 morning.
 Full Moon 17 day, at 7 morning.
 Last Quarter 24 day, at 11 morning.

M	Jupiter	Venus
D	rises	sets
1	6m 16	5 a
7	5 57	5 27
13	5 38	5 47
19	5 19	6 7
25	5 c	6 26

M	W	Holy Days,	D rises	D's	D's	Aspects and
D	D	☉ rises & sets	& sets	Longit.	Declin.	Weather
1	S		D sets	8 ^m 47	21 s 53	
2	E	S. aft. Epiph.	5 a 30	23 13	16 36	Parif. Candi.
3	M	Blase	6 55	7 ^X 19	10 34	
4	Tu		8 17	20 59	4 12	Shap air and frosty
5	W	Agatha	9 35	4 ^V 14	2 n 10	weather.
6	Th	Sun rises 7 18	10 51	17 5	8 15	
7	F	Sun sets 4 44	morn	29 34	13 50	
8	S		0 7	11 ^X 47	18 46	
9	E	S. aft. Epiph.	1 22	23 47	22 52	* ♄ ♀
10	M	Sun rises 7 11	2 37	5 ^{II} 41	25 57	Wind and rain
11	Tu		3 47	17 32	27 57	D in Apogeo.
12	W	Hil. Term ends	4 48	29 26	28 39	about this time.
13	Th	Sun sets 4 55	5 38	11 ^{III} 26	28 0	
14	F	Valentine	6 15	23 35	26 1	* ☉ ♂
15	S		6 42	5 ^{II} 55	22 48	
16	E	Septuagesima	7 1	18 28	18 28	
17	M		D rises	1 ^{III} 15	13 14	* ♄ ♀
18	Tu	Sun rises 6 56	6 a 43	14 14	7 21	Still wet and
19	W	Sun sets 5 6	8 1	27 26	1 4	windy.
20	Th		9 22	10 ^{III} 51	5 s 22	
21	F		10 47	24 26	11 40	
22	S		morn	8 ^{III} 13	17 28	
23	E	Sexagesima	0 15	22 10	22 26	Pr. Octavianus bo
24	M	St. Matthias	1 44	6 ^{II} 15	26 10	Pr. Adol. Pr. b
25	Tu		3 9	20 28	28 19	D in Perigeo.
26	W	Sun rises 6 40	4 24	4 ^V 34	28 35	More moderate at
27	Th	Sun sets 5 22	5 15	19 6	26 57	the end.
28	F		5 50	3 ^m 25	23 34	* ♄ ♀

M	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	8 ^W 6	22 s 33	17 ^W 51	22 s 21	16 ^X 42	22 s 44	19 ^W 15	16 s 23
7	8 42	22 30	19 11	22 12	20 46	23 10	26 46	13 59
13	9 15	22 28	20 27	22 24	50 23	27 4	17 11	19
19	9 48	22 26	21 42	21 50	28 55	23 38	11 46	8 30
25	10 20	22 24	22 55	21 39	3 ^W 1	23 42	19 15	5 32

M	☉'s		☉'s	Observations
	Longit.	Declin.		
1	12 ^W 37	17 s 2		Clock before the Sun 14 m. 5 sec.
E 13	38	16 45		Saturn rises at 5 h. 32 m. morning.
3	14 39	16 28		Jupiter rises at 6 h. 10 m. morning.
4	15 40	16 10		Mars rises at 4 h. 3 m. morning.
5	16 41	15 51		Venus sets at 5 h. 20 m. evening.
6	17 41	15 33		
7	18 42	15 14		Seven Stars south at 6 h. 7 m. afternoon.
8	19 43	14 55		Day is 9 h. 30 m. long.
E 20	44	14 36		Days are increased 1 h. 51 min.
10	21 44	14 17		
11	22 45	13 57		☿ greatest elong. from ☉.
12	23 45	13 37		
13	24 46	13 17		Saturn rises at 4 h. 54 m. morning.
14	25 47	12 57		Clock before the Sun 14 m. 36 sec.
15	26 47	12 36		Jupiter rises at 5 h. 33 m. morning.
E 27	48	12 15		Mars rises at 3 h. 54 m. morning.
17	28 48	11 54		Venus sets at 5 h. 32 m. afternoon.
18	29 48	11 33		☉ enters ♋ 4 h. 36 m. afternoon.
19	0 ^X 49	11 12		
20	1 49	10 50		Day breaks at 4 h. 59 min.
21	2 49	10 29		Days are increased 2 h. 40 m.
22	3 50	10 7		Day is 10 h. 28 m. long.
E 4	50	9 45		Seven Stars south at 5 h. 6 m. afternoon.
24	5 50	9 23		
25	6 51	9 1		Saturn rises at 4 h. 10 m. morning.
26	7 51	8 38		Jupiter rises at 4 h. 57 m. morning.
27	8 51	8 16		Mars rises at 3 h. 46 m. morning.
28	9 51	7 53		Venus sets at 6 h. 36 m. afternoon.

New Moon 3 day, at 7 morning.
 First Quarter 11 day, at 2 morning.
 Full Moon 18 day, at 9 at night,
 Last Quarter 25 day, at 6 at night.

M	Jupiter	Venus
D	rises	sets
1	4 m 49	6 a 39
7	4 30	6 59
13	4 11	7 21
19	3 52	7 43
25	3 33	8 4

M	W	Holy Days, ☉ rises & sets	☉ rises & sets	☉'s Longit.	☉'s Declin.	Aspects and Weather
1	S	<i>David</i>	6 m 14	17 \approx 36	18 s 48	* ♂ ♀
2	E	<i>Quinquagesim.</i>	6 32	1 \times 37	13 5	<i>Chad</i>
3	M		☉ sets 15 23	6 49		Sharp frosty weather for some time.
4	Tu	<i>Shrove-Tues.</i>	7 a 12	28 50	0 23	
5	W	<i>Ash-Wednesd.</i>	8 30	11 \vee 58	5 n 56	
6	Th		9 48	24 47	11 50	
7	F	<i>Perpetua</i>	11 6	7 \circ 17	17 8	
8	S		morn 19 32	21 37		
9	E	<i>Quadr. 1st Sin L.</i>	0 21	1 Π 35	25 9	♂ ♀ ♂
10	M	Sun rises 6 17	1 34	13 30	27 31	☉ in Apogeo.
11	Tu	Sun sets 5 45	2 43	25 23	28 40	Now wind and rain <i>Gregory</i> may be expected.
12	W	<i>Ember Week</i>	3 38	7 \circ 17	28 28	
13	Th		4 19	19 17	26 57	
14	F	Sun rises 6 9	4 51	1 Δ 28	24 9	
15	S	Sun sets 5 53	5 14	13 54	20 11	☐ ♀ ♀
16	E	<i>2nd Sun. in Lent</i>	5 28	26 36	15 15	
17	M	<i>St. Patrick</i>	5 40	9 \mathbb{M} 36	9 31	High winds, and stormy weather.
18	Tu	<i>Edw. K. W. S.</i>	☉ rises 22 54	3 15		
19	W	<i>Equal D. and N.</i>	7 a 12	6 \triangle 31	3 s 19	
20	Th		8 35	20 22	9 51	
21	F	<i>Benedict</i>	10 5	4 \mathbb{M} 26	15 59	☐ ♂ ♀
22	S		11 35	18 38	21 19	
23	E	<i>3rd Sund. in Lent</i>	morn 2 \nearrow 55	25 28		
24	M		1 5	17 12	28 1	☉ in Perigeo.
25	Tu	<i>Annun. Lady &</i>	2 22	1 \vee 28	28 44	Brisk winds, with hail and cold rain.
26	W	Sun rises 5 45	3 22	15 38	27 33	
27	Th		4 2	29 40	24 38	
28	F	Sun sets 6 19	4 28	13 \approx 34	20 18	☐ ♀ ♀
29	S		4 47	27 18	14 57	
30	E	<i>4. or Midl. S.</i>	5 3	10 \times 50	8 57	* ♀ ♀
31	M		5 15	24 9	2 28	

M	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	10 ³ 39	22 s 23	23 ³ 42	21 s 31	5 ³ 44	23 s 41	24 ³ 14	3 s 30
7	11 6	22 20	24 50	21 20	9 50	23 32	1 ³ 42	0 24
13	11 29	22 18	25 55	21 9	13 56	23 17	9 9	2 n 41
19	11 49	22 16	26 55	20 58	18 22	54	16 35	5 45
25	12 7	22 15	27 53	20 47	22 8	22 25	23 59	8 44

M	☉'s		☉'s	Declin.	Observations
	Longit.	Declin.			
1	10 ³ 51	7 s 30			Clock before the Sun 12 m. 39 sec.
E 11	51	7 7			Saturn rises at 3 h. 53 m. morning.
3	12 52	6 44			☉ eclipsed, invisible.
4	13 52	6 21			Jupiter rises at 4 h. 40 m. morning.
5	14 52	5 58			Mars rises at 3 h. 42 m. morning.
6	15 52	5 35			
7	16 52	5 12			Venus sets at 6 h. 59 m. afternoon.
8	17 51	4 48			Seven Stars south at 4 h. 18 m. afternoon.
E 18	51	4 25			Day is 11 h. 26 m. long.
10	19 51	4 1			Days are increased 3 h. 45 m.
11	20 51	3 38			
12	21 51	3 14			
13	22 50	2 51			Saturn rises at 3 h. 16 m. morning.
14	23 50	2 27			Jupiter rises at 4 h. 8 m. morning.
15	24 50	2 3			Mars rises at 3 h. 32 m. morning.
E 25	49	1 40			Clock before the Sun 8 m. 51 sec.
17	26 49	1 16			
18	27 48	0 52			☉ eclipsed, visible.
19	28 48	0 29			Sun is east 6 h. 1 m. morning.
20	29 47	0 5			☉ enters ♍ 5 h. 4 m. afternoon.
21	0 ³ 47	0 n 19			Venus sets at 7 h. 36 m. evening.
22	1 46	0 42			Day breaks at 3 h. 57 m.
E 2	46	1 6			
24	3 45	1 30			Seven Stars south at 3 h. 20 m. afternoon.
25	4 44	1 53			
26	5 44	2 17			☿ greatest elong. from ☉.
27	6 43	2 40			
28	7 42	3 4			Saturn rises at 2 h. 27 m. morning.
29	8 41	3 27			Jupiter rises at 3 h. 20 m. morning.
E 9	41	3 50			Mars rises at 3 h. 15 m. morning.
31	10 40	4 14			Venus sets at 8 h. 24 m. at night.

New Moon 1 day, at 9 night.
 First Quarter 9 day, at 10 night.
 Full Moon 17 day, at 9 morning.
 Last Quarter 23 day, at midnight.

M	Jupiter	Venus
D	rises	fets
1	3 m 12	8 a 27
7	2 53	8 49
13	2 32	9 10
19	2 12	9 31
25	1 51	9 49

M	W	Holy Days,	D rises	D's	D's	Aspects and
D	D	☉ rises and fets	& fets	Longit.	Declin.	Weather
1	Tu	Sun rises 5 33	D fets	7 V 15	3 n 40	☐ ☉ h
2	W	Sun fets 6 29	7 a 34	20 7 9	43	Fair and very pleas-
3	Th	<i>Richard</i>	8 51	28 44	15 16	fant spring wea-
4	F	<i>St. Ambrose</i>	10 10	15 9 20	6	♂ ♀ ♂
5	S	<i>Old Lady-Day</i>	11 26	27 21 24	0	ther.
6	E	5 Sund. in Lent	morn	9 II 24	26 49	D in Apogeo.
7	M		0 36	21 19 28	23	
8	Tu	Sun rises 5 20	1 36	3 III 28	39	
9	W	Sun fets 6 42	2 23	15 5 27	35	Warm winds, and
10	Th		2 56	27 4 25	15	gentle showers.
11	F	Camb. T. ends	3 21	9 III 14	21 45	
12	S	Oxf. Ter. ends	3 42	21 39 17	13	* ♀ ♂
13	E	Palm-Sunday	3 54	4 III 23	11 51	
14	M		4 7	17 29 5	49	
15	Tu	Sun rises 5 6	4 19	0 III 59	0 s 40	Winds, but fair for
16	W	Sun fets 6 56	4 31	14 52 7	18	the most part.
17	Th	<i>Maundy-Thurs.</i>	D rises	29 7 13	44	
18	F	<i>Good-Friday</i>	9 a 18	13 III 38	19 32	
19	S	<i>Alphege</i>	10 51	28 20 24	13	
20	E	Easter-Day	morn	13 IV 3	27 23	
21	M	Easter-Mond.	0 16	27 42 28	39	☐ ☉ ♀, Din Per.
22	Tu	Easter-Tuecl.	1 24	12 VS 11	27 55	
23	W	<i>St. George</i>	2 10	26 26 25	21	Now about expect
24	Th		2 41	10 III 24	21 19	wet, and windy
25	F	<i>St. Mark</i>	3 1	24 5 16	12	<i>Prs. Mary born</i>
26	S		3 16	7 IV 30	10 24	weather.
27	E	Low Sunday	3 28	20 40 4	15	
28	M	Sun rises 4 42	3 38	3 V 36	1 n 57	
29	Tu	Sun fets 6 20	3 48	16 21 7	59	
30	W	Ox. & Ca. T. be.	4 0	28 54 13	37	

Saturn		Jupiter		Mars		Venus	
Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
12 12 23	22 s 14	28 17 49	20 s 37	26 17 55	21 s 43	2 10 36	12 n 4
12 12 32	22 13	29 36	20 29	1 12 1	21 0	9 58	14 45
12 12 40	22 13	0 18	20 20	5 6	20 11	17 18	17 12
12 12 43	22 12	0 54	20 13	9 11	19 17	24 37	19 24
12 12 42	22 12	1 25	20 8	13 15	18 18	1 11 54	21 18

☉'s		☉'s		Observations
Longit.	Declin.	Longit.	Declin.	
11 11 39	4 n 37			Clock bef. the Sun 3 m. 56 sec. ☉ eclips. invis.
12 12 38	5 0			Saturn rises at 2 h. 8 m. morning.
13 13 37	5 23			Jupiter rises at 3 h. 6 m. morning.
14 14 36	5 46			Mars rises at 3 h. 6 m. morning.
15 15 35	6 8			Venus sets at 8 h. 42 m. evening.
16 16 34	6 31			Seven Stars south 2 h. 33 m. afternoon.
17 17 33	6 54			
18 18 32	7 16			Day is 13 h. 24 m. long.
19 19 30	7 39			Days are increased 5 h. 43 min.
20 20 29	8 1			Sun is east 6 h. 25 m. morning.
21 21 28	8 23			Day breaks at 3 h. 6 min.
22 22 26	8 45			Twilight ends at 8 h. 56 m.
23 23 25	9 7			Saturn rises at 1 h. 30 m. morning.
24 24 24	9 28			
25 25 22	9 50			Clock is with the Sun.
26 26 21	10 11			
27 27 20	10 32			Jupiter rises at 2 h. 19 m. morning.
28 28 18	10 53			Mars rises at 2 h. 42 m. morning.
29 29 17	11 14			Venus sets at 9 h. 31 m. evening.
0 0 15	11 34			☉ enters ♄ 5 h. 52 m. morning.
1 1 13	11 55			
2 2 12	12 15			
3 3 10	12 35			Day is 14 h. 20 m. long.
4 4 8	12 55			Days are increased 6 h. 44 min.
5 5 7	13 15			Day breaks at 2 h. 26 min.
6 6 5	13 34			
7 7 3	13 53			Saturn rises at 0 h. 36 m. morning.
8 8 2	14 12			Jupiter rises at 1 h. 40 m. morning.
9 9 0	14 31			Mars rises at 2 h. 20 m. morning.
9 9 58	14 49			Venus sets at 10 h. 3 m. at night.

New Moon 1 day, at 11 morning.
 First Quarter 9 day, at 3 afternoon.
 Full Moon 16 day, at 6 afternoon.
 Last Quarter 23 day, at 8 morning.
 New Moon 31 day, at 2 morning.

M D	Jupiter rises	Venus sets
1	1 m 29	10 a 6
7	1 8	10 22
13	0 45	10 34
19	0 21	10 43
25	11 a 55	10 52

M D	W D	Holy Days, ☉ rises and sets	☽ rises & sets	☽'s Longit.	☽'s Declin.	Aspects and Weather
1	Th	St. Phil. & Jam.	☽ sets	11 17	18 n 38	Fair and pleasant for some time.
2	F		9 a 15	23 31	22 49	
3	S	Inv. of Cross	10 28	5 II 37	25 58	△ ○ ☿
4	E	2 S. aft. Easter	11 32	17 35	27 55	△ ☿ ☽. in Ap.
5	M		morn	29 29	28 35	
6	Tu	St. John, a P.L.	0 24	11 21	27 55	♂ ○ ☽
7	W	East. T. begins	1 1	23 13	25 58	
8	Th		1 30	5 II 11	22 52	
9	F	Sun rises 4 23	1 50	17 18	18 45	□ ♂ ☽
10	S	Sun sets 7 38	2 5	29 40	13 46	Dry windy wea- ther, but not much wet.
11	E	3 S. aft. Easter	2 18	12 III 20	8 5	
12	M		2 30	25 25	1 54	
13	Tu		2 41	8 III 56	4 s 34	
14	W	Sun rises 4 15	2 53	22 56	11 3	△ ☿ ☽
15	Th	Sun sets 7 46	3 7	7 III 23	17 9	△ ♂ ♀
16	F		☽ rises	22 12	22 24	
17	S		9 a 53	7 IV 15	26 16	
18	E	4 S. aft. Easter	11 11	22 23	28 18	☽ in Perigeo.
19	M	Q. Charl. born	morn	7 IV 25	28 13	Dunstan
20	Tu		0 8	22 13	26 6	Wind and frequent showers about
21	W	Sun rises 4 5	0 43	6 III 40	22 20	
22	Th	Prs. Eliz. born	1 8	20 44	17 21	□ ○ ♂
23	F	Sun sets 7 57	1 25	4 III 24	11 37	△ ○ ☿
24	S		1 37	17 42	5 30	this time.
25	E	Rogat. Sunday	1 49	0 IV 40	0 n 41	
26	M	Augustine, A.B.	2 0	13 22	6 43	
27	Tu	Ven. Bede	2 12	25 51	12 23	
28	W		2 24	8 IV 9	17 29	♂ ☿ ☽
29	Th	Ascension	2 38	20 19	21 49	K. Ch. II. R.
30	F	Sun rises 3 55	2 57	2 II 23	25 12	
31	S	Sun sets 8 6	☽ sets	14 21	27 27	

M	Saturn		Jupiter		Mars		Venus	
D	Long.	Declin.	Long.	Declin.	Long.	Declin.	Long.	Declin.
1	12 39	22 13	1 49	20 3	17 18	17 14	9 10	22 51
7	12 31	22 14	2 8	20 0	21 19	16 8	16 25	24 1
13	12 21	22 15	2 20	19 58	25 18	14 58	23 37	24 47
19	12 7	22 16	2 24	19 58	29 14	13 45	0 47	25 8
25	11 50	22 18	2 22	20 0	3 10	12 31	7 55	25 4

M	Sun's	Sun's
D	Longit.	Declin.

Observations

1	10 8 56	15 n 8	Clock after the Sun 3 min. 56 sec.
2	11 54	15 26	Saturn rises at 0 h. 18 min. morning
3	12 52	15 43	Jupiter rises at 1 h. 22 min. morning
E 13	50 16	1	Mars rises at 2 h. 8 min. morning
5	14 48	16 18	Venus sets at 10 h. 17 min. at night
6	15 46	16 35	Seven Stars South at 0 h. 38 m. afternoon
7	16 44	16 52	
8	17 42	17 8	Day is 15 hours 12 minutes long
9	18 40	17 24	Days are increased 7 hours 33 minutes
10	19 38	17 40	
E 20	36 17	55	Saturn rises at 11 h. 43 min. at night
12	21 34	18 11	Jupiter rises at 0 h. 49 min. morning
13	22 32	18 26	Mars rises at 1 h. 49 min. morning
14	23 29	18 40	Venus sets at 10 h. 36 min. at night
15	24 27	18 54	Sun is East 7 h. 3 min. morning
16	25 25	19 8	Clock after the Sun 4 minutes
17	26 23	19 22	
E 27	20 19	35	Day breaks at 0 h. 54 minutes
19	28 18	19 48	Twilight ends at 11 h. 20 min.
20	29 16	20 1	
21	0 11	20 13	Sun enters II 6 h. 30 min. morning
22	1 11	20 25	Seven Stars South at 11 h. 38 m. forenoon
23	2 8	20 37	Day is 15 hours 56 minutes long
24	3 6	20 48	
E 4	4 20	59	All Day, or Twilight, till July the 23d.
46	5 1	21 10	Days are increased 8 hours 20 minutes
27	5 59	21 20	
28	6 56	21 30	Saturn rises at 10 h. 32 min. at night
29	7 54	21 39	Jupiter rises at 11 h. 38 min. at night
30	8 51	21 48	Mars rises at 1 h. 6 min. morning
31	9 49	21 57	Venus sets at 10 h. 58 min. at night

Lunations						M	Jupiter	Venus
						D	rises	sets
First Quarter 8th day, at 5 morning						1	11 a 27	10 a 59
Full Moon 14th day, at midnight						7	11	10 56
Last Quarter 21st day, at 5 afternoon						13	10 36	10 51
New Moon 29th day, at 5 afternoon						19	10 10	10 45
						25	9 44	10 35
M	W	Holy-Days	D rises	Moon's	Moon's	Aspects and		
D	D	☉ rises & sets	& sets	Longit.	Declin.	Weather		
1	E	S. after Ascens.	10 a 17	26 11 16	28 n 25	Nicom. D in Ap.		
2	M	Easter T. ends	10 59	8 58	28 4	Fair and very		
3	T		11 30	19 59	26 26	pleasant.		
4	W	K. G. III. bo.	11 52	1 52	23 38			
5	T	r. Er. Aug. b.	morn	13 50	19 48	Ox. T. en. Bonif.		
6	F	Sun rises 3 49	0 9	25 57	15 6	* h ♂		
7	S		0 23	8 17	9 44	8 h ♀		
8	E	Whit Sunday	0 34	20 54	3 51			
9	M	Whit Monday	0 43	3 54	2 s 22			
10	T	Whit Tuesday	0 54	17 21	8 41	Prs. Amella born		
11	W	Ember Week	1 7	1 17	14 49	St. Barnabas		
12	T		1 23	15 42	20 21	Δ ♂ ♀		
13	F	Sun sets 8 15	1 45	0 34	24 48	Hot and very		
14	S	Sun rises 3 44	2 19	15 44	27 38	8 1 ♀		
15	E	Trin. Sunday	D rises	1 4	28 25	D in Perigeo		
16	M		10 a 34	16 21	17 2	dry weather.		
17	T	St. Alban	11 4	1 24	23 42			
18	W	Ox. T. begins	11 24	16 5	18 54			
19	T	Corpus Christi	11 39	0 20	13 10			
20	F	Trin. T. beg.	11 51	14 6	6 58	Tr. Ed. K. W. S.		
21	S	Longest day	morn	27 26	0 38	Wind and some		
22	E	S. aft. Trin.	0 2	10 22	5 n 32	showers.		
23	M		0 12	22 59	11 19			
24	T	St. John Bapt.	0 23	5 8	20 16	32		
25	W	Sun sets 8 17	0 38	17 30	21 1			
26	T		0 57	29 31	24 35			
27	F	Sun rises 3 44	1 21	11 28	27 3	Fair and hot		
28	S	Sun sets 8 16	1 56	23 22	28 18	D in Apo		
29	E	S. aft. Trin.	D sets	5 14	28 14	St. Peter		
30	M		9 a 28	17 6	26 52	the end.		

WING.

June, 1783.

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Saturn		Jupiter		Mars		Venus	
Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
11 17 28	22 20	2 16	20 8 4	7 39	11 8 3	16 25	11 24 n 26
11 5 22	23	2 2 20	9 11 25	9 47	23 14	23	28
10 42 22	25	1 38 20	15 15 7	8 32	0 14	22	7
10 17 22	27	1 10 20	22 18 43	7 18	7 10	20	25
9 51 22	29	0 36 20	30 22 11	6 7	14 3	18	25

Sun's	Sun's
Longit.	Declin.

Observations

E 10 11 46	22 n 5	Clock after the Sun 2 min. 39 sec.
2 11 44	22 13	Saturn rises at 10 h. 11 min. at night
3 12 41	22 21	Jupiter rises at 11 h. 22 min. evening
4 13 39	22 28	Mars rises at 0 h. 50 min. morning
5 14 36	22 35	Venus sets at 10 h. 57 min. evening
6 15 33	22 41	
7 16 31	22 47	☿ greatest Elong. from the Sun
E 17 28	22 53	
9 18 25	22 58	Seven Stars south 10 h. 25 min. forenoon
10 19 23	23 3	Day 16 hours 26 minutes long
11 20 20	23 7	
12 21 17	23 11	Saturn rises at 9 h. 27 min. evening
13 22 14	23 15	Jupiter rises at 10 h. 36 min. evening
14 23 12	23 18	
E 24 9	23 20	Clock and Sun are together
16 25 6	23 23	Mars rises at 0 h. 15 min. morning
17 26 3	23 25	Venus sets at 10 h. 47 min. at night
18 27 1	23 26	
19 27 58	23 27	Days are increased 8 h. 51 min. which is
20 28 55	23 28	their greatest increase
21 29 52	23 28	Sun enters ♋ 3 h. 12 min. afternoon
E 0 50	23 28	Longest day is 16 hours 34 minutes
23 1 47	23 27	
24 2 44	23 27	Seven Stars south at 9 h. 21 m. forenoon
25 3 41	23 25	
26 4 38	23 23	Sun is east at 7 h. 20 min. morning
27 5 36	23 21	
28 6 33	23 18	Days are decreased 3 minutes
E 7 30	23 15	Day is 16 hours 30 minutes long
30 8 27	23 12	

Lunations										M	Jupiter	Venus
										D	rises	sets
First Quarter 7th day, at 4 afternoon										1	9 a 17	10 a
Full Moon 14th day, at 7 morning										7	8 51	10 7
Last Quarter 21st day, at 5 morning										13	8 25	9 4
New Moon 29th day, at 8 morning										19	7 58	9 8
										25	sets	9 8
M	W	Holy-Days	D rises	Moon's	Moon's	Aspects and						
D	D	☉ rises & sets	& sets	Longit.	Declin.	Weather						
1	T	Cam. Comm.	9 a 51	28 59	24 n 17							
2	W	Visit. V. Mar.	10 9	10 56	20 38	Hot and sultry						
3	T	Dog-days beg.	10 23	22 59	16 8	perhaps some						
4	F	Cam. T. ends	10 35	5 10	10 55	T.S.Ma. ☉						
5	S		10 46	17 32	5 13	thunder shower						
6	E	S. aft. Trin.	10 55	0 11	0 s 49							
7	M	Tho. à Becket	11 7	13 9	6 58	* 2 ☿						
8	T		11 21	26 31	13 0							
9	W	Trin. T. ends	11 39	10 19	18 36							
10	T	Sun rises 3 51	morn	24 35	23 21							
11	F	Sun sets 8 8	0 6	9 17	26 46	Brisk winds, a						
12	S	Oxford Aft	0 47	24 19	28 24	☽ in Perigee						
13	E	S. aft. Trin.	1 49	9 33	27 54	some showers.						
14	M		D rises	24 49	25 19							
15	T	St. Swithin	9 a 21	9 56	20 57							
16	W	Sun rises 3 58	9 38	24 43	15 22	☿ ♀, ☽ ♀						
17	T	Sun sets 8 1	9 52	9 6	9 5	(* ♀ ☿)						
18	F		10 4	22 59	2 33							
19	S	Oxf. T. ends	10 14	6 25	3 n 53							
20	E	S. aft. Trin.	10 26	19 25	9 56	Margar. ☉						
21	M		10 40	2 8	15 25	Hot, and very						
22	T	Mary Magd.	10 57	14 24	20 9	dry weather,						
23	W		11 19	26 31	23 58	some time.						
24	T		11 51	8 30	26 42							
25	F	St. James	morn.	20 23	28 13							
26	S	S. An. M. V. M.	0 36	2 15	28 27	☿ ♀, ☽ ♀, ☽ in						
27	E	S. aft. Trin.	1 32	14 7	27 21							
28	M		2 37	26 22	25 1	Frequent show						
29	T	Sun rises 4 15	D sets	8 12	34 1	near the end.						
30	W	Sun sets 7 44	8 a 29	20 6	17 11							
31	T		8 40	2 18	12 4							

WING.

July, 1783.

21

Saturn		Jupiter		Mars		Venus	
Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
19 25	22 32	29 57	20 40	25 33	4 57	20 52	16 n 10
7 8 58	22 34	29 14	20 50	28 45	3 51	27 36	13 41
13 8 32	22 37	28 30	20 59	1 45	2 50	4 14	11 2
19 8 7	22 39	27 44	21 9	4 33	1 53	10 46	8 15
25 7 44	22 41	26 57	21 19	7 6	1 3	17 12	5 22

M	Sun's	Sun's
D	Longit.	Declin.

Observations

1	9 25	23 n	8	Clock before the Sun 3 min. 18 sec.
2	10 22	23	4	
3	11 19	22	59	Day is 16 hours 26 minutes long
4	12 16	22	54	Days are decreased 9 minutes
5	13 13	22	49	
E 14	11 22	43		Seven Stars south at 8 h. 34 m. morning
7 15	8 22	37		Saturn sets at 3 h. 32 min. morning
8 16	5 22	30		Jupiter rises at 8 h. 47 min. evening
9 17	2 22	23		Mars rises at 11 h. 4 min. at night
10 17	59 22	16		Venus sets at 10 h. 58 min. at night
11 18	57 22	8		Sun is due east at 7 h. 15 min.
12 19	54 22	0		
E 20	51 21	51		Day is 16 hours 10 minutes long
14 21	48 21	42		Days are decreased 26 minutes
15 22	46 21	33		
16 23	43 21	23		Clock before the Sun 5 min. 33 sec.
17 24	40 21	13		
18 25	37 21	3		Saturn sets at 2 h. 42 min. morning
19 26	35 20	52		Jupiter rises at 7 h. 58 min. evening
E 27	32 20	41		Mars rises at 10 h. 29 min. at night.
21 28	29 20	29		Venus sets at 9 h. 36 min. evening
22 29	26 20	18		
23 0	24 20	6		Sun enters Ω 2 h. 2 min. morning
24 1	21 19	53		
25 2	18 19	40		☿ greatest Elong. from ☉
26 3	16 19	27		
E 4	13 19	14		Day breaks at 0 h. 57 min.
28 5	11 19	0		Day is 15 hours 32 minutes long
29 6	8 18	46		
30 7	6 18	31		Twilight ends at 10 h. 41 min.
31 8	3 18	17		

Lunations						M D	Jupiter sets	Venus sets
First Quarter 5th day, at midnight						1	3 m 11	9 a 7
Full Moon 12th day, at 2 afternoon						7	2 44	8 50
Last Quarter 19th day, at 7 at night						13	2 18	8 31
New Moon 27th day, at 11 at night						19	1 52	8 16
						25	1 28	7 58
M D	W D	Holy-Days ☉ rises & sets	☽ rises & sets	Moon's Longit.	Moon's Declin.	Aspects and Weather		
1	F	Lammas	8 a 51	14 12 40	6 n 25			
2	S		9 1 27	13 0 26		Δ 4 ♀		
3	E	7 S. aft. Trin.	9 13 10	0 5 s 40				
4	M	Sun rises 4 24	9 26 23	4 11 40		Wind, but mostly		
5	T	Sun sets 7 34	9 41 6 m	27 17 17		* ♀ ♂		
6	W	Transfigurat.	10 3 20	10 22 11		fair.		
7	T	Name of Jesus	10 38 4 f	16 25 57				
8	F		11 29 18	42 28 10				
9	S	Sun rises 4 32	morn	3 1/2 26 28		☽ in Perigeo		
10	E	8 S. aft. Trin.	0 42 18	21 26 42		St. Laurence		
11	M	Prs. Brunf. bo.	2 13 3	20 23 3		Dog-days end		
12	T	Pr. of Wales b.	☽ rises	18 15 17		O. Lam. Δ ♂ ♀		
13	W		7 a 58	2 1/2 55 11		☐ 1/2 ♀		
14	T	Sun sets 7 19	8 11 17	16 5 10				
15	F	Sun rises 4 43	8 23 1 1/2	11 1 n 30		Some showers		
16	S	Pr. Fred. bo.	8 34 14	41 7 54		about this time.		
17	E	9 S. aft. Trin.	8 48 27	46 13 46				
18	M		9 3 10	8 28 18				
19	T	Sun rises 4 50	9 24 22	52 23 4		♂ ☉ ♀		
20	W	Sun sets 7 8	9 52 5 1/2	0 26 10		Good harvest		
21	T	Pr. W. Hen. b.	30 16 59	28 3 8 ♂ ♀				
22	F		25 28 52	28 38 weather for				
23	S		morn	10 43 27		☽ in Apogeo		
24	E	10 S. aft. Trin.	0 30 22	37 25 52		St. Bartholomew		
25	M	Sun rises 5 1	1 40 4	36 22 41		several days.		
26	T	Sun sets 6 57	2 55 16	43 18 30				
27	W		☽ sets	28 59 13				
28	T	St. Augustine	7 a 5 11	26 7 54				
29	F	Beh. J. Bapt.	7 16 24	5 1 54		Δ ☉ 1/2		
30	S		7 26 6	56 4 s 17		Wind and fre-		
31	E	11 S. aft. Trin.	7 38 20	1 10 23		quent showers.		

WING.

August, 1782.

23

M	Saturn		Jupiter		Mars		Venus	
D	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	7 ^h 18	22 8 4	26 ^h 4	21 8 29	9 ^h 43	0 8 13	24 29	1 8 58
7	6 59	22 45	25 21	21 39	11 35	0 22	0 34	0 8 58
13	6 42	22 46	24 42	21 47	13 4	0 48	6 24	3 52
19	6 29	22 48	24 7	21 53	14 7	1 6	12 1	6 42
25	6 18	22 49	23 37	21 59	14 42	1 14	17 19	9 25

M	Sun's	
D	Longit.	Declin.

Observations

1	9 ^h 0	18 n 2	Clock before the Sun 5 min. 54 seconds
2	9 58	17 46	
E 10	55	17 31	Saturn sets at 1 h. 36 min. morning
4 11	53	17 15	Jupiter sets at 2 h. 58 min. morning
5 12	50	16 59	Mars rises at 9 h. 38 min. evening
6 13	48	16 42	Venus sets at 8 h. 53 min. evening
7 14	45	16 26	
8 15	43	16 9	Seven Stars south at 6 h. 23 m. morning
9 16	41	15 51	
E 17	38	15 34	Day is 14 hours 52 minutes long
11 18	36	15 16	Days are decreased 1 hour 46 minutes
12 19	33	14 58	
13 20	31	14 40	♀ greatest Elong. from ☉.
14 21	29	14 22	
15 22	26	14 3	Saturn sets at 0 h. 46 min. morning
16 23	24	13 44	Jupiter sets at 2 h. 5 min. morning
E 24	22	13 25	Mars rises at 9 h. 0 min. evening
18 25	20	13 6	
19 26	17	12 46	Clock before the Sun 3 min. 17 seconds
20 27	15	12 26	
21 28	13	12 7	Venus sets at 8 h. 10 min. evening
22 29	11	11 46	Seven Stars south at 5 h. 30 min. morning
23 0 ^h 9	11	26	Sun enters ♍ 8 h. 21 min. morning
E 1	7	11 6	
25 2	5	10 45	Day is 13 hours 58 minutes long
26 3	3	10 24	
27 4	1	10 3	Sun eclipsed, invisible
28 4	59	9 42	Days are decreased 2 hours 47 minutes
29 5	57	9 21	
30 6	55	8 59	Day breaks at 3 h. 2 min.
E 7	53	8 37	Clock and Sun are together

Lunations							M	Jupiter	Venus
							D	fets	fets
First Quarter 4th day, at 7 in morning							1	1 m 0	7 a 38
Full Moon 10th day at midnight							7	0 36	7 17
Last Quarter 18th day, at 1 in afternoon							13	0 13	6 56
New Moon 26th day, at noon							19	11 a 49	6 34
							25	11 29	6 11
M	W	Holy-Days	D rises	Moon's	Moon's	Aspects and			
D	D	☉ rises & fets	& fets	Longit.	Declin.	Weather			
1	M	Wiles	7 a 53	3 m 20	16 s 8	Δ 4 ♄			
2	T	London burnt	8 14	16 53	21 12	Fair and pleasant			
3	W	1666.	8 42	0 14	25 13	weather at the			
4	T		9 26	14 42	27 49	beginning.			
5	F	Sun rises 5 22	10 31	28 56	28 40	D in Perigeo			
6	S	Sun fets 6 36	11 52	13 20	27 35				
7	E	12 S. aft. Trin.	morn	27 51	24 38	Eunurchus			
8	M	Nat. B. V. M.	1 24	12 24	20 7				
9	T		2 58	26 53	14 25				
10	W	Sun rises 5 32	4 29	11 14	8 0	□ ♄ ♄			
11	T		D rises	25 20	1 18	Rain accom-			
12	F	Sun fets 6 24	6 a 49	9 7	5 n 19	panied with brisk			
13	S		7 2	2 34	11 31	winds.			
14	E	13 S. aft. Trin.	7 16	5 8 39	17 4	Holy Cross-day			
15	M		7 35	18 23	21 42	8 ♂ ♄, Δ ☉ 4			
16	T	Sun rises 5 43	7 58	0 11 49	25 15				
17	W	Ember Week	8 36	12 59	27 36	Lambert			
18	T		9 21	24 59	28 37				
19	F	Sun fets 6 11	10 22	6 53	28 18	D in Apogeo			
20	S		11 33	18 45	26 41	Fair and pleasant			
21	E	14 S. aft. Trin.	morn	0 39	23 52	St. Matthew			
22	M	K. Geo. III. cr.	0 47	12 41	20 1	□ 4 ♄			
23	T		2 4	24 54	15 15	some days.			
24	W	Equal day & n.	3 20	7 m 21	9 48				
25	T		4 36	20 3	3 50				
26	F	St. Cyprian	D fets	3 1	2 s 24	Wind and some			
27	S		5 a 57	16 16	8 39	showers.			
28	E	15 S. aft. Trin.	6 11	29 46	14 38				
29	M	St. Michael	6 29	13 m 30	20 2	Prs. Ch. Aug. b.			
30	T	St. Jerome	6 55	27 24	24 22	(□ ☉ ♄)			

WING. September, 1783. 25

M	Saturn		Jupiter		Mars		Venus		
D	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.	
1	6 ^h 9	22 50	23 ^h 10	22 8	3 14	44	1 13	23 0	12 24
7	6 6	22 51	22 53	22 6	14 11	1	2 27	20 14	43
13	6 7	22 51	22 44	22 8	13 11	0 44	1 1	16 47	
19	6 10	22 51	22 41	22 9	11 46	0 20	3 54	18 30	
25	6 18	22 51	22 45	22 8	10 4	0 8	5 46	19 47	

M Sun's		Sun's		Observations	
D	Longit.	Declin.			
1	8 51	8 n 16	Clock after the Sun 0 min. 14 sec.		
2	9 49	7 54			
3	10 48	7 32	Saturn sets at 11 h. 32 min. forenoon		
4	11 46	7 10	Jupiter sets at 0 h. 48 min. morning		
5	12 44	6 47	Mars rises at 7 h. 53 min. evening		
6	13 42	6 25	Venus sets at 7 h. 20 min. evening		
E 14	41	6 2			
8	15 39	5 40	Seven Stars south at 4 h 28 m. morning		
9	16 37	5 17			
10	17 36	4 54	Moon eclipsed, visible		
11	18 34	4 32			
12	19 33	4 9	Day is 12 hours 48 minutes long		
13	20 31	3 46	Days are decreased 3 hours 48 minutes		
E 21	29	3 23			
15	22 28	3 0	Clock after the Sun 4 min. 56 sec.		
16	23 27	2 36	Sun is due East at 7 h. 12 min.		
17	24 25	2 13			
18	25 24	1 50	Day breaks at 3 h. 50 min.		
19	26 23	1 26	Saturn sets at 10 h. 35 min. morning		
20	27 21	1 3	Jupiter sets at 11 h. 46 min. at night		
E 28	20	0 39			
22	29 19	0 16	Seven Stars south at 3 h. 39 m. morning		
23	0 18	0 s 7	Sun enters 4 h. 49 min. morning		
24	1 17	0 31	Day and night each 12 hours long		
25	2 16	0 54	Mars rises at 6 h. 31 min. evening		
26	3 14	1 17	Sun eclipsed, invisible		
27	4 13	1 41			
E 5	12	2 4	Venus sets at 5 h. 59 min. afternoon		
29	6 12	2 28	Day is 11 hours 40 minutes long		
30	7 11	2 51			

Lunations						M	Jupiter	Venus
						D	sets	sets
First Quarter 3d day, at 1 afternoon						1	11 a 9	5 a 47
Full Moon 10th day at 11 morning						7	10 48	5 22
Last Quarter 18th day, at 9 morning						13	10 29	4 57
New Moon 26th day, at 1 morning						19	10 9	4 32
						25	9 49	rises
M	W	Holy-Days	D rises	Moon's	Moon's	Aspects and		
D	D	☉ rises & sets	& sets	Longit.	Declin.	Weather		
1	W	Remigius	7 a 35	11 f 27	27 s 20	8 ☉ ♂, * ♀		
2	T	Sun rises 6 15	8 32	25 35	28 36	Moderate wea-		
3	F	Sun sets 5 43	9 47	9 47	27 59	D in Perigeo		
4	S		11 14	23 58	25 33	* ♀		
5	E	16 S. aft. Trin	morn	8 9	21 33	ther for several		
6	M	Faith	0 43	22 16	16 18	days.		
7	T		2 12	6 x 17	10 15			
8	W	Sun rises 6 26	3 27	20 10	3 46			
9	T	St. Denys	5 1	3 52	2 n 48	Wind and rain.		
10	F	Ox. & Ca. T. b.	D rises	17 20	9 8			
11	S		5 a 30	0 8 34	14 57			
12	E	17 S. aft. Trin	5 47	13 31	19 59			
13	M	Tr. KEd. Con.	6 9	26 12	24 0			
14	T	Sun sets 5 22	6 39	8 II 36	26 49			
15	W		7 22	20 47	28 19	High winds, and		
16	T	Sun rises 6 42	8 17	2 47	28 28	stor my weather.		
17	F	Etheldred	9 22	14 40	27 17	☐ ☉ ♄, D in Ap.		
18	S	St. Luke	10 37	26 31	24 52			
19	E	18 S. aft. Trin	11 52	8 Ω 25	21 23			
20	M		morn	20 27	16 59			
21	T	Sun sets 5 8	1 7	2 m 41	11 49			
22	W		2 22	15 13	6 5	♂ ☉ ♀		
23	T	Sun rises 6 55	3 38	28 4	0 s 3			
24	F		3 56	11 18	6 21	More mild and		
25	S	K. G. III. ac	4 16	24 45	12 32	Crispin		
26	E	19 S. aft. Trin	D sets	8 m 51	18 15	temperate.		
27	M		5 a 4	23 4	23 4	☐ ♄ ♀, ♂ ☉ ♀		
28	T	St. Sim. & Jude	5 38	7 f 28	26 33			
29	W		6 30	21 56	28 19			
30	T	Sun sets 4 52	7 41	6 23	28 9			
31	F		9 5	20 44	26 6	D in Perigeo		

WING.

October, 1783.

27

M	Saturn		Jupiter		Mars		Venus.	
D	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	6 ^h 28	22 8	53 ^h 54	22 8	6 ^h 14	0 8 29	6 ^m 26	20 8 31
7	6 42	22 53	23 15	22 3	6 28	0 51	5 42	20 33
13	6 0	22 53	23 39	21 59	4 55	1 3	3 33	19 44
19	7 20	22 53	24 10	21 53	3 43	1 7	2 20	18 4
25	7 43	22 53	24 48	21 47	2 57	1 0	16 43	15 47

M	Sun's		Sun's		Observations	
D	Longit.	Declin.				
1	8 ^h 10	3 s	14		Clock after the Sun 10 min. 22 sec.	
2	9	9	3	38	Seven Stars south at 3 h. 2 m. morning	
3	10	8	4	1		
4	11	7	4	24	☿ greatest Elong. from the Sun	
E 12	6	4	48			
6	13	6	5	11	Saturn sets at 9 h. 36 min. at night	
7	14	5	5	34	Jupiter sets 10 h. 48 min. at night	
8	15	4	5	57		
9	16	4	6	19	Day is 11 hours 2 minutes long	
10	17	3	6	42	Days are decreased 5 hours 34 minutes	
11	18	2	7	5	Day breaks at 4 h. 39 min.	
E 19	2	7	28			
13	20	1	7	50	Mars sets at 5 h. 8 min. morning	
14	21	1	8	13	Venus sets at 4 h. 53 min. afternoon	
15	22	0	8	35		
16	23	0	8	57	Clock after the Sun 14 min. 22 sec.	
17	24	0	9	19	Twilight ends at 7 h. 9 min.	
18	24	59	9	41	Day is 10 hours 26 minutes long	
E 25	59	10	3			
20	26	59	10	25	Seven Stars south at 1 h. 55 min. morning	
21	27	59	10	46	Sun is due East at 5 h. 25 min.	
22	28	58	11	7		
23	29	58	11	29	Sun enters ♍ 0 h. 42 min. afternoon	
24	0 ^m	58	11	50		
25	1	58	12	10	Saturn sets at 8 h. 30 min. at night	
E 2	58	12	31		Jupiter sets at 9 h. 45 min. at night	
27	3	58	12	51		
28	4	58	13	12	Days are decreased 6 hours 44 minutes	
29	5	58	13	32		
30	6	58	13	52	Mars sets at 3 h. 55 min. morning	
31	7	58	14	11	Venus rises at 6 h. 4 min. morning	

Lunations						M	Jupiter	Venus
						D	fets	rifs
First Quarter 1st day, at 7 at night						1	9 a 27	5 m 58
Full Moon 9th day, at 2 morning						7	9 8	5 18
Last Quarter 17th day, at 5 morning						13	8 49	4 48
New Moon 24th day, at 1 afternoon						19	8 30	4 11
						25	8 11	4 6
M	W	Holy-Days	D	rises	Moon's Moon's	Aspects and Weather		
D	D	Orises & fets	& fets	Longit.	Declin.			
1	S	All Saints	10 a 36	4 56	22 s 25			
2	E	20 S. aft. Trin.	morn 18	57	17 29	Pr. Ed. b.		
3	M	Prs. Sophia bo.	0 4 2	47	11 42	Dark cloudy		
4	T		1 28	16 25	5 27	weather, but not		
5	W	Powder Plot	2 49	29 53	0 n 58	much wet.		
6	T	Term beg.	4 8	13 9	7 15	Leonard		
7	F	D. Cumb. bo.	5 27	26 15	13 8			
8	S	Ps Aug. So. b.	6 47	9 8	9 18			
9	E	21 S. aft. Trin.	D rises 21	51	22 40	L. Ma. d. Lond.		
10	M		4 a 40	4 11	22 53			
11	T	St. Martin	5 19	16 40	27 49	Wind and some		
12	W		6 9	28 47	28 44	showers.		
13	T	Britius	7 11	10 26	45 27	D in Apogeo		
14	F	Sun rises 7 34	8 20	22 37	25 35			
15	S	Machutus	9 34	4 26	27 27			
16	E	22 S. aft. Trin.	10 48	16 18	13 22			
17	M	Hugh	morn 28	17 13	32 32	Sharp air inclin-		
18	T		0 21	10 28	8 6	able to frost.		
19	W	Sun fets 4 18	1 16	22 58	2 13	* h 8		
20	T	Edm. K. & M.	2 30	5 51	3 s 54			
21	F		3 47	19 10	10 5			
22	S	Cecilia	5 11	21 57	15 59			
23	E	23 S. aft. Trin.	6 46	17 11	21 13	St. Clement		
24	M		D fets 1	47	25 19			
25	T	D. Clouc. b.	4 a 15	15 37	27 47	Snow, or cold		
26	W	Sun rises 7 51	5 22	1 34	28 16	rain.		
27	T	Sun fets 4 8	6 43	6 26	26 42	D in Perigeo		
28	F	Mich. T. ends	8 14	1 8	23 19			
29	S		9 4	15 33	18 33	Δ ⊙ ♂		
30	E	Advent Sand.	11 29	39 12	50 50	St. Andrew		

M	Saturn		Jupiter		Mars		Venus	
D	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	8 15	22 51	25 38	21 37	2 40	0 40	23 26	12 56
7	8 44	22 49	26 27	21 28	2 58	0 11	21 15	10 50
13	9 16	22 48	27 21	21 18	3 40	0 26	20 52	9 22
19	9 50	22 46	28 20	21 6	4 48	1 11	21 54	8 37
25	10 26	22 44	29 22	20 53	6 18	2 1	24 10	8 30

M	Sun's	Sun's	Observations
D	Longit.	Declin.	
1	8 m 59	14 s 30	Clock after the Sun 16 min. 14 sec.
E 9	59	14 50	
3 10	59	15 8	Saturn sets at 7 h. 57 min. at night
4 11	59	15 27	Jupiter sets at 9 h. 17 min. at night
5 12	59	15 45	
6 14	0 16	4	Seven Stars south 0 h. 50 min. morning
7 15	0 16	21	Days are decreased 7 hours 20 minutes
8 16	0 16	39	Day is 9 hours 10 minutes long
E 17	1 16	56	Twilight ends at 6 h. 32 min.
10 18	1 17	13	
11 19	1 17	30	Day breaks at 5 h. 32 min
12 20	2 17	46	
13 21	2 18	2	☿ greatest Elong. from Sun
14 22	3 18	8	
15 23	3 18	34	Clock after the Sun 15 min. 8 sec.
E 24	4 18	49	Mars sets at 3 h. 0 min. morning
17 25	4 19	4	Venus rises at 4 h. 30 min. morning
18 26	5 19	18	
19 27	6 19	32	Saturn sets at 6 h. 58 min. evening
20 28	6 19	46	Jupiter sets at 8 h. 26 min. at night
21 29	7 19	59	Sun is due East at 4 h. 53 min.
22 0 ↑	8 20	12	Sun enters ↑ 8 h. 53 min. morning
E 1	9 20	25	
24 2	9 20	37	Seven Stars south 11 h. 30 min. afternoon
25 3	10 20	49	Mars sets at 2 h. 36 min. morning
26 4	11 21	1	Venus rises at 4 h. 4 min. morning
27 5	12 21	12	
28 6	13 21	22	Day is 8 hours 14 minutes long
29 7	14 21	33	Days are decreased 8 hours 26 minutes
E 8	15 21	43	

Lunations										M	Jupiter	Venus
										D	fets	rises
First Quarter 1st day, at 4 in the morning										1	7 a 52	3 m 57
Full Moon 8th day, at 7 at night										7	7 32	3 50
Last Quarter 16th day, at midnight										13	7 12	3 48
New Moon 23d day, at 11 at night										19	6 53	3 49
First Quarter 30th day, at 3 in the afternoon										25	6 34	3 52
M	W	Holy-Days	D	rises	Moon's	Moon's	Aspects and					
D	D	☉ rises & fets	& fets	Longit.	Declin.	Declin.	Weather					
1	M	Sun rises 7 57	morn.	13	25	6 s 38						
2	T	Sun fets 4 2	0 32	26	54	0 15	Mild weather					
3	W		1 52	10	6	6 n 0	* 24 ☿					
4	T	Sun rises 8 0	3 9	23	3	11 53	for the season.					
5	F	Sun fets 3 59	4 27	5 8	49	17 10						
6	S	Nicholas	5 44	18	24	21 39						
7	E	St. in Advent	7 1	0	49	25 6	☐ 24 ♀					
8	M	Concep. V. M	D rises	13	6	27 21						
9	T		3 a 55	25	14	28 16	Dark foggy					
10	W	Sun rises 8 4	4 52	7	15	27 50	△ 8 ☿					
11	T	Sun fets 3 55	5 59	19	9	26 7	D in Apogeo					
12	F		7 9	0	59	23 15	weather, but					
13	S	Lucy	8 23	12	48	19 25	☐ 2 h ♂					
14	E	St. in Advent	9 36	24	38	14 49	mostly fair.					
15	M		10 48	6	35	9 37						
16	T	Cam. T. ends	11 59	18	44	3 59	O. sapientia					
17	W	Ember Week	morn.	1	10	1 s 55	Oxf. Term ends					
18	T		1 14	13	57	7 56						
19	F	Sun rises 8 8	2 32	27	12	13 47	Snow, or cold rain					
20	S	Sun fets 3 52	3 55	10	56	19 12	about this time.					
21	E	St. in Advent	5 22	25	11	23 45	St. Tho. Sho. day					
22	M		6 52	9	53	26 56	(* 2 ♀					
23	T	Sun rises 8 8	D fets	24	56	28 17	☉ ☉ ☿					
24	W	Sun fets 3 52	4 a 0	10	10	27 31						
25	T	Christmas-day	5 31	25	24	24 41	D in Perigeo					
26	F	St. Stephen	7 6	10	28	20 10	Frosty weather,					
27	S	St. John	8 37	25	13	14 29	perhaps snow,					
28	E	St. aft. Christ.	10 3	9	34	8 10	H. Innocents					
29	M		11 22	23	30	1 37	at the end of the					
30	T		morn.	7	1	4 n 48	year.					
31	W	Silvester		20	10	10 50						

M	Saturn		Jupiter		Mars		Venus	
D	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	11 ^h 22 ^m 42 ^s	29 [°] 20 ['] 39 ["]	8 ^h 7 ^m 2 ^s 59 ^s	27 [°] 16 ['] 8 ["] 5				
7	11 42 22 39	1 39 20 24	10 14 4 2	1 m 30 9 4				
13	12 22 22 36	2 52 20 8	12 34 5 7	6 12 10 54				
19	13 3 22 33	4 7 19 50	15 7 6 16	11 26 12 16				
25	13 45 22 29	5 25 19 31	17 50 7 28	17 1 13 44				

M	Sun's		Sun's		Observations			
D	Longit.	Declin.						
1	9 ^h 15 ^m 21 ^s	52 [°]			Clock after the Sun 10 min. 34 sec.			
2	10 16 22	1						
3	11 17 22	10			Saturn sets at 6 h. 7 min. evening			
4	12 18 22	18			Jupiter sets at 7 h. 42 min. evening			
5	13 19 22	26						
6	14 20 22	33			Seven Stars south at 10 h. 40 m. afternoon			
E 15	21 22	40			Mars sets at 2 h. 7 min. morning			
8	16 22 22	46			Venus rises at 3 h. 50 min. morning			
9	17 23 22	52						
10	18 24 22	58			Sun due East at 4 h. 41 min.			
11	19 25 23	3			Day is 7 hours 50 minutes long			
12	20 26 23	7			Day breaks at 6 h. 1 min.			
13	21 27 23	12			Days are decreased 8 hours 48 minutes			
E 22	28 23	15			Twilight ends at 6 o'Clock			
15	23 30 23	19						
16	24 31 23	21						
17	25 32 23	24			Saturn sets at 5 h. 14 min. evening			
18	26 33 23	25			Jupiter sets at 6 h. 56 min. evening			
19	27 34 23	27						
20	28 35 23	28			Seven Stars south at 9 h. 38 m. afternoon			
E 29	36 23	28			Sun enters ^h 9 h. 13 min. afternoon			
22	0 ^h 38 23	28			Shortest Day is 7 h. 44 minutes long			
23	1 39 23	28						
24	2 40 23	27			Clock and Sun are together			
25	3 41 23	25			Mars sets at 1 h. 33 min. morning			
26	4 42 23	23			Venus rises at 3 h. 53 min. morning			
27	5 44 23	21						
E 6	45 23	18			Days are increased 4 minutes			
29	7 46 23	15			Day is 7 hours 48 minutes long			
30	8 47 23	11						
31	9 49 23	6			Clock before the Sun. 3 min. 32 sec.			

32 Mercury's Longitude and Declination for 1783.

Days	Long.	Declin.	Long.	Declin.	Long.	Declin.
1	4 16	24 s 41	26 23	13 s 49	6 34	5 s 48
4	9 2	24 36	1 20	11 38	4 37	7 16
7	13 49	24 29	5 54	9 25	1 37	8 34
10	18 43	24 0	9 46	7 21	0 27	9 39
13	23 40	23 22	12 40	5 32	0 15	10 24
16	28 42	22 25	14 18	4 11	0 55	10 46
19	3 49	21 20	14 27	5 27	2 20	10 53
22	8 59	19 55	13 8	3 29	4 24	10 40
25	14 13	18 22	10 40	4 9	6 59	10 10
28	19 29	16 33	7 36	5 18	10 0	9 25
1	14 37	8 s 1	4 39	12 n 14	3 48	25 n 24
4	18 27	6 39	11 0	14 47	7 28	25 2
7	22 34	5 April 15	17 29	17 11	10 35	24 20
10	26 57	3 April 34	24 1	19 26	13 11	23 34
13	1 35	1 42	0 20	21 23	15 12	22 46
16	6 April 28	0 n 9	6 May 4	23 2	16 June 35	21 58
19	11 38	2 30	12 42	24 13	17 19	21 5
22	17 0	4 47	1 18	25 5	17 22	20 17
25	22 38	7 12	23 28	25 31	16 44	19 32
28	28 32	9 43	28 12	25 44	15 32	18 56
1	13 54	18 n 29	21 32	21 n 28	20 14	4 n 47
4	12 2	18 18	26 29	21 14	25 20	2 Sept 29
7	10 15	18 14	1 59	20 36	0 15	0 Sept 12
10	8 49	18 28	7 50	19 31	5 0	2 Sept 1
13	7 58	18 44	13 53	18 11	9 36	4 s 11
16	7 52	19 14	19 59	16 26	14 2	6 15
19	8 36	19 46	26 0	14 32	18 17	8 17
22	10 11	20 23	1 53	12 25	22 22	10 3
25	12 39	20 53	7 36	10 11	26 16	11 57
28	15 54	21 20	13 8	7 52	29 57	13 37
1	3 21	15 s 6	29 5	10 s 19	27 8	18 s 53
4	6 26	16 28	27 48	9 7	1 46	20 14
7	9 7	17 29	27 31	8 39	6 25	21 27
10	11 14	18 25	29 6	9 3	11 5	22 31
13	12 39	18 46	1 48	9 56	15 45	23 24
16	13 8	18 46	5 17	11 14	20 27	24 9
19	12 28	18 18	9 16	12 43	25 11	24 39
22	10 28	17 7	13 32	14 21	29 56	24 58
25	7 16	15 19	17 59	15 53	4 43	25 7
28	3 27	13 38	22 22	17 25	9 33	25 1

WIN

Day	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1	4	5	6	7	8	9	10	11	12	13	14	15
2	5	6	7	8	9	10	11	12	13	14	15	16
3	6	7	8	9	10	11	12	13	14	15	16	17
4	7	8	9	10	11	12	13	14	15	16	17	18
5	8	9	10	11	12	13	14	15	16	17	18	19
6	9	10	11	12	13	14	15	16	17	18	19	20
7	10	11	12	13	14	15	16	17	18	19	20	21
8	11	12	13	14	15	16	17	18	19	20	21	22
9	12	13	14	15	16	17	18	19	20	21	22	23
10	13	14	15	16	17	18	19	20	21	22	23	24
11	14	15	16	17	18	19	20	21	22	23	24	25
12	15	16	17	18	19	20	21	22	23	24	25	26
13	16	17	18	19	20	21	22	23	24	25	26	27
14	17	18	19	20	21	22	23	24	25	26	27	28
15	18	19	20	21	22	23	24	25	26	27	28	29
16	19	20	21	22	23	24	25	26	27	28	29	30
17	20	21	22	23	24	25	26	27	28	29	30	31
18	21	22	23	24	25	26	27	28	29	30	31	
19	22	23	24	25	26	27	28	29	30	31		
20	23	24	25	26	27	28	29	30	31			
21	24	25	26	27	28	29	30	31				
22	25	26	27	28	29	30	31					
23	26	27	28	29	30	31						
24	27	28	29	30	31							
25	28	29	30	31								
26	29	30	31									
27	30	31										
28	31											
29												
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If the tabu the But time

Equation of Time to the nearest Minute.

Day	Jan sub	Feb sub	Mar sub	Apr sub	May add	June add	July sub	Aug sub	Sept add	Oct add	Nov add	Dec add
	min	m	m	m	m	m	m	m	m	m	m	m
1	4	14	13	4	3	3		6	0	10	16	11
2	5	14	12	4	3	3	4	6	1	11	16	10
3	5	14	12	3	3	2	4	6	1	11	16	10
4	6	14	12	3	3	2	4	6	1	11	16	9
5	6	14	12	3	4	2	4	6	2	12	16	9
6	6	15	12	2	4	2	4	5	2	12	16	9
7	7	15	11	2	4	2	4	5	2	12	16	8
8	7	15	11	2	4	1	5	5	3	12	16	8
9	8	15	11	2	4	1	5	5	3	13	16	7
10	8	15	11	1	4	1	5	5	3	13	16	7
11	9	15	10	1	4	1	5	5	4	13	16	6
12	9	15	10	1	4	1	5	5	4	13	16	6
13	9	15	10	0	4	0	5	5	4	14	15	5
14	10	15	9	0	4	0	5	4	5	14	15	5
15	10	15	9	add	4	0	5	4	5	14	15	4
16	10	14	9	0	4	sub	6	4	5	14	15	4
17	11	14	9	1	4	0	6	4	6	15	15	3
18	11	14	8	1	4	1	6	4	6	15	15	3
19	11	14	8	1	4	1	6	3	6	15	14	2
20	12	14	8	1	4	1	6	3	7	15	14	2
21	12	14	7	1	4	1	6	3	7	15	14	1
22	12	14	7	2	4	1	6	3	7	15	14	1
23	12	14	7	2	4	2	6	2	8	16	13	0
24	13	14	6	2	4	2	6	2	8	16	13	sub
25	13	13	6	2	4	2	6	2	8	16	13	1
26	13	13	6	2	3	2	6	2	9	16	12	1
27	13	13	5	3	3	3	6	1	9	16	12	2
28	13	13	5	3	3	3	6	1	9	16	12	2
29	14		5	3	3	3	6	1	10	16	11	3
30	14		5	3	3	3	6	0	10	16	11	3
31	14		4				6	0		16		4

If the equal or clock time be given; add or subtract the tabular numbers to or from it, as directed in the table; the sum or difference will be the apparent or solar time. But do the contrary to reduce the apparent to equal time.

C

ECLIPSES

Eclipses of Jupiter's first Satellite.

January	February	March	April
The Eclipses of Jupiter's Satellites will not be visible this Month, Jupiter being too near the Sun.	Immersions	Immersions	Immersions
	1 0 0 33	1 7 36 5	2 4 14 46
	2 18 28 45	3 2 4 48	3 22 43 36
	4 12 57 0	4 20 33 31	5 17 12 25
	6 7 25 18	6 15 2 15	7 11 41 16
	8 1 53 36	8 9 31 1	9 6 10 4
	9 20 21 58	10 3 59 47	11 0 38 50
	11 14 50 22	11 22 28 36	12 19 7 36
	13 9 18 49	13 16 57 25	14 13 36 21
	15 3 47 16	15 11 26 16	16 8 5 6
	16 22 15 45	17 5 55 5	18 2 33 50
	18 16 44 18	19 0 23 56	19 21 2 32
	20 11 12 51	20 18 52 48	21 15 31 15
	22 5 41 27	22 13 21 41	23 9 59 56
	24 0 10 4	24 7 50 32	25 4 28 33
	25 18 38 44	26 2 19 22	26 22 57 11
	27 13 7 26	27 20 48 14	28 17 25 47
		29 15 17 5	30 11 54 20
		31 9 45 55	
May	June	July	August
Immersions	Immersions	Immersions	Emersions
2 6 22 53	1 8 24 26	1 10 22 30	2 9 10 31
4 0 51 24	3 2 52 34	3 4 50 43	4 3 39 24
5 19 19 54	4 21 20 40	4 23 18 57	5 22 8 19
7 13 48 22	6 15 48 46	6 17 47 13	7 16 37 17
9 8 16 48	8 10 16 52	8 12 15 31	9 11 6 17
11 2 45 14	10 4 44 58	10 6 43 50	11 5 35 19
12 21 13 39	11 23 13 4	12 1 12 11	13 0 4 23
14 15 42 2	13 17 41 10	13 19 40 35	14 18 33 30
16 10 10 23	15 12 9 16	15 14 9 0	16 13 2 39
18 4 38 42	17 6 37 22	17 8 37 29	18 7 31 51
19 23 7 1	19 1 5 28	19 3 5 59	20 2 1 4
21 17 35 16	20 19 33 35	Emersions	21 20 30 19
23 12 3 31	22 14 1 42	20 23 49 32	23 14 59 36
25 6 31 45	24 8 29 49	22 18 18 8	25 9 28 55
27 0 59 57	26 2 57 58	24 12 46 46	27 3 58 16
28 19 28 8	27 21 26 8	26 7 15 26	28 22 27 39
30 13 56 17	29 15 54 17	28 1 44 9	30 16 57 2
		29 20 12 54	
		31 14 41 41	

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Brief

Operation.

September	October	November	December
Emerfions	Emerfions	Emerfions	Emerfions
1 11 26 23	1 13 48 4	2 10 35 2	2 12 40 31
3 5 55 51	3 8 17 33	4 5 3 57	4 7 8 42
5 0 25 19	5 2 47 3	5 23 32 50	6 1 36 52
6 18 54 48	6 21 16 30	7 18 1 40	7 20 5 0
8 13 24 17	8 15 45 57	9 12 30 28	9 14 33 5
10 9 53 48	10 10 15 22	11 6 59 14	11 9 1 8
12 2 23 19	12 4 44 46	13 1 27 58	13 3 29 9
13 20 52 51	13 23 14 9	14 19 56 36	14 21 57 8
15 15 22 23	15 17 43 30	16 14 25 12	16 16 25 6
17 9 51 54	17 12 12 49	18 8 53 45	18 10 53 5
19 4 21 25	19 6 42 6	20 3 22 15	20 5 21 3
20 22 50 57	21 1 11 21	21 21 50 42	21 23 49 0
22 17 20 30	22 19 40 34	23 16 19 7	23 18 16 57
24 11 50 2	24 14 9 44	25 10 47 29	25 12 44 52
26 6 19 33	26 8 38 52	27 5 15 49	27 7 12 48
28 0 49 3	28 3 7 58	28 23 44 7	29 1 40 44
29 19 18 33	29 21 37 1	30 18 12 21	30 20 8 41
	31 16 6 2		

To illustrate the Use of the preceding Table by an Example.

Suppose on the 5th Day of October this Year, the Time of the Emerfion of Jupiter's first Satellite be observed (by a Telescope) in an unknown Meridian, to happen at 4 h. 55 min. 15 sec. at Night; I find by the Table, that the Time of this Emerfion will happen at the British Observatory at 2 h. 47 min. 3 sec. the same Day: The Difference of the Times is 2 h. 8 min. 12 sec. which being converted into Degrees and Minutes of the Equator, at the Rate of 15 Degrees per Hour, will make 32 deg. 3 min. the Longitude of the Place of Observation to the East; because the Time is more than that at the British Observatory.

Operation.	Emerfion observed	—	4 ^h 55 ^m 15 ^s
	Emerfion at Greenwich	—	2 47 3
	The Difference of Time	—	2 8 12
	Answering to	—	32° 3' 0"

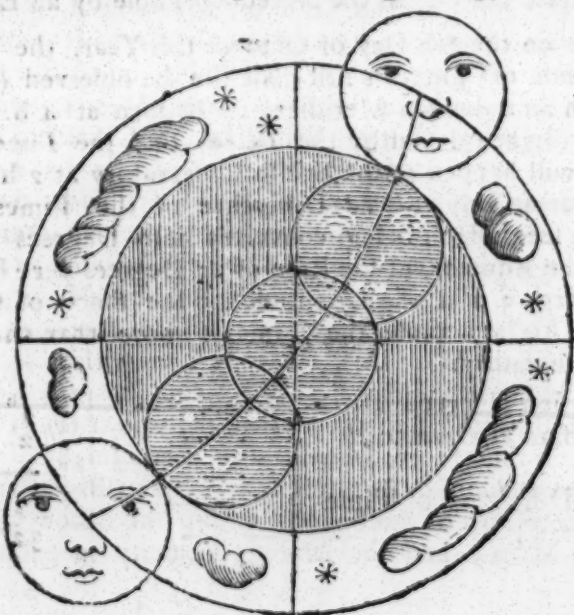
In the Periphery of this Year there happen no less than six Eclipses, viz. four of the Sun, and two of the Moon; but of these six, two only are visible in our Hemisphere.

The first is a small one of the Sun, upon Shrove Monday the 3d of March, about our Seven in the Morning; but though the Sun is at that Time above our Horizon, this Defect, by Reason of the Moon's great South Latitude, will not be visible to these Parts of the Globe; nor will it in any Part of the Earth be very considerable.

The second is a great total Eclipse of the Moon, very large, and of long Continuance; and if the Air prove favourable, the whole Eclipse may be seen, not only by us in this Kingdom, but also by the Inhabitants of all the States and Kingdoms in Europe and Africa, and the Western Parts of Asia; but in America the latter Part only will be visible, the Moon rising with them eclipsed. At the middle Time of this Eclipse the Moon is vertical to that Desert Coast of Anian in Africa, which lies 39 Degrees 14 min. East from London, and in 42 min. of North Latitude. At the Time of this Eclipse the Moon is 235256 English Miles distant from the Earth's Surface; the Height of the Earth's projected Shadow is 850236 Miles, and its Diameter or Width where the Moon passes through, is 5760 Miles; and

Type for London.

End.



Begin.

the

the Moon's Velocity in passing through the said Shadow will be about 35 Miles and a half in a Minute of Time.

This Eclipse happens in the 29th Degree of Virgo, on Tuesday the 18th of March; with us in Great Britain, it may be expected nearly to correspond with the foregoing Type and Calculation.

March 10, 1783.	London	York	Edinburgh	Night Appar. Time.
Beginning —	7h 31m 30s	7h 27m 3s	7h 18m 41s	
Immersion —	8 32 0	8 27 33	8 19 11	
Middle —	9 23 0	9 18 33	9 10 11	
Emerſion —	10 14 0	10 9 33	10 1 11	
End —	11 14 30	11 10 3	11 1 41	

Duration of total Darkneſs 1h 42m

Duration of the Eclipse — 3 43

} Digits eclipsed $21^{\circ} 27'$.

The third is another ſolar Deliquium upon Tuesday the firſt of April, about our Nine at Night, therefore inviſible to us; it is a very ſmall Eclipse where greateſt, which is in the remote Northern Parts of the Globe.

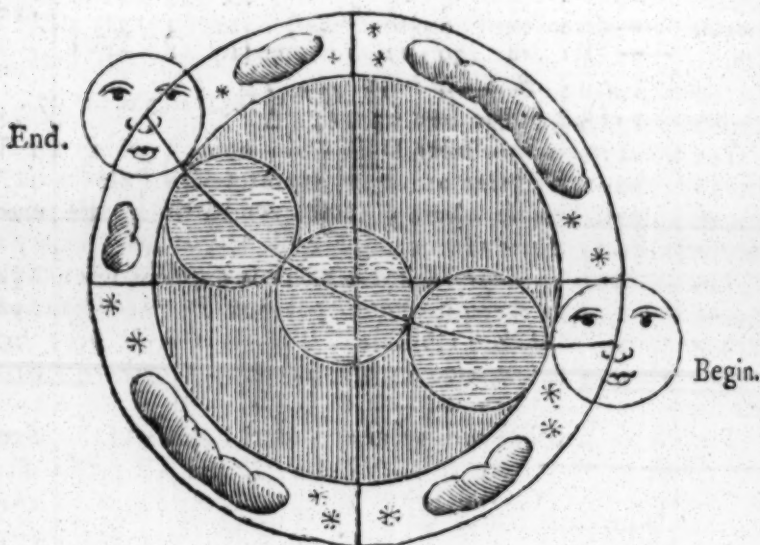
The fourth is another ſolar Deſect; it happens upon Wednesday the 27th of Auguſt, about Half paſt Ten at Night, with Reſpect to us, therefore inviſible: This is alſo a very ſmall Eclipse where greateſt, viz. in the unknown Northern Parts of the Earth.

The fifth is another very great and total Eclipse of the Moon, and viſible in theſe Parts of the Globe; if the Air prove clear, as I hope it will, for the Sake of thoſe who delight to make celeftial Obſervations: It happens on Wednesday the 10th of September at Night, and will be viſible in all Europe and Africa, together with the Weſtern Parts of Aſia, and the Eaſt Parts of America; but in Siam, China, Chineſe Tartary, &c. in the Eaſtern Parts of Aſia, the Fore-part only will be viſible, the Moon ſetting with them before the Eclipse be over; as appears by conſidering her Poſition, in reſpect to thoſe Parts of the Earth, during the Time of the Eclipse; for at the Middle ſhe is vertical in 4 Degrees 47 min. of South Latitude, and 6 Degrees 19 min. Eaſt Longitude from London, viz. about 150 Leagues off the Weſt Coaſt of Congo, in Africa.

The Moon at the Time of this Eclipse is 4261 Engliſh Miles nearer the Earth's Superficies, than ſhe was at the Time of the Eclipse on the 18th of March laſt. The Height of the Earth's projected Shadow in this Eclipse is 859116 Miles, and the Diameter or Width of the Shadow where the Moon goes through it 5828 Miles; and the Moon's Velocity in paſſing through

this projected Shadow of the Earth will be about 36 Miles in a Minute.

In this our British Isle, the Time and Manner of Appearance may be expected nearly to correspond with the following Type and Calculation for London, &c.



Sept. 10, 1783.	London			York			Edinburgh			
Beginning —	9h	44m	0s	9h	39m	33s	9h	31m	11s	Night, App. Time.
Immersion —	10	43	45	10	39	16	10	30	56	
Middle —	11	34	45	11	30	18	11	21	56	
Emerfion —	12	26	15	12	21	48	12	13	26	
End (on 11th Day)	1	25	30	1	21	3	1	12	41	

Duration of total Darknefs 1 h 42 m 30 s } Digits eclipsed 21° 20'.
Duration of the Eclipse 3 41 30 }

The fixth and laft is a solar Deliquium, on Friday, September the 26th, about Half an Hour past our Twelve o'Clock at Noon; but the Moon having at that Time great South Latitude, this Eclipse will not be vifible to any Part of Europe; but in the Southern Parts of the World, where the Moon's Parallax diminifheth her Latitude, it will be vifible; namely, in the Great South-Sea, or unknown Southern Continent.

A Compendious Chronology of memorable Things
since the Creation to this present Year.

A.P.J.	before <i>Christ.</i>		Years <i>since.</i>
710	4004	The Creation of the World	5787
1766	2948	Noah born	4731
2366	2348	Noah's Flood began	4131
2481	2233	The Babylonian Monarchy established	4016
2718	1996	Abraham born	3779
2986	1728	Joseph sold into Egypt	3511
3143	1571	Moses born	3354
3223	1491	The Israelites Departure out of Egypt	3274
3530	1184	Troy taken and destroyed by the Greeks	2967
3710	1004	Solomon's Temple built and dedicated	2786
4126	588	Jerusalem and the Temple destroyed	2371
4176	538	Daniel delivered from the Den of Lions	2321
4198	516	The Temple of Jerusalem rebuilt	2299
4391	323	The Death of Alexander the Great	2106
4710	4	The true Year of Christ's Birth	1787
4714	0	The vulgar Year of Christ's Birth	1783

A. D.

33	The Passion and Resurrection of Jesus Christ	1750
70	Jerusalem and the Temple destroyed by Titus	1713
100	St. John, the last of the Apostles, dies Dec. 20.	1683
313	Christianity triumphs under Constantine	1470
476	Augustulus, the last Roman Emperor, deposed	1307
606	The wicked Phocas makes Pope Boniface Head of the Church	1177
608	Mahomet broaches his Imposture at Mecca	1175
872	Italy and Rome plundered by the Saracens	911
1012	Savain King of Denmark conquers England	771
1066	William Duke of Normandy conquers England	717
1110	Arts and Sciences taught in Cambridge	673
1119	The first War between the French and English	564
1300	The Mariners Compass invented	483
1330	The Canaries discovered by an English Ship	453
1380	Gunpowder and the Use of Guns first found out	403
1453	Constantinople taken from the Christians	330

A.D.

Years
since.

1463	The <i>Persians</i> conquered by <i>Tamerlane</i>	320
1500	<i>Rome</i> plundered by the Duke of <i>Bourbon</i>	283
1517	<i>Martin Luther</i> first disputed against Popery	265
1536	<i>England</i> separated from the Church of <i>Rome</i>	247
1588	The <i>Spanish Armada</i> defeated by the <i>English</i>	193
1603	Q. <i>Eliz.</i> dies <i>March 24</i> , and K. <i>James I.</i> began	180
1604	Died of the Plague in <i>London</i> , in 2 Years, 68,596	179
1605	Gunpowder Treason, <i>Nov. 5</i> .	178
1613	The New-River Water brought to <i>London</i>	170
1618	The excellent Sir <i>Walter Raleigh</i> beheaded	165
1625	K. <i>James I.</i> died, King <i>Charles I.</i> began, <i>Mar. 27</i> .	158
1625	35,417 Persons died of the Plague in <i>London</i>	158
1641	The cruel <i>Irish</i> Massacre began, <i>October 23</i> .	142
1643	<i>Burleigh-House</i> stormed by <i>Cromwel</i> , <i>July 24</i> .	140
1649	K. <i>Charles I.</i> beheaded, <i>January 30</i> .	134
1658	<i>Oliver Cromwell</i> died.	125
1660	K. <i>Charles II.</i> restored, <i>May 29</i> .	123
1665	68,586 Persons died of the Plague in <i>London</i>	118
1666	<i>London</i> burnt, and a great Sea-Fight with the <i>Dutch</i>	117
1672	War declared against the <i>Dutch</i> , <i>March 17</i> .	111
1674	A great Snow for 11 Days together	109
1675	The Town of <i>Northampton</i> burnt, <i>Sept. 3</i> .	108
1680	A great and splendid Comet appeared	103
1684	The great Frost that held 13 Weeks	99
1685	K. <i>Charles II.</i> died, <i>Feb. 6</i> . and K. <i>James II.</i> began	98
1685	The Duke of <i>Monmouth</i> beheaded, <i>July 15</i> .	98
1688	Seven Bishops sent to the Tower, <i>June 8</i> .	95
1688	K. <i>James II.</i> abdicated, <i>December 12</i> .	95
1689	K. <i>William</i> and Q. <i>Mary</i> crowned, <i>April 11</i> .	94
1692	The <i>French Fleet</i> entirely defeated by the <i>English</i>	91
1698	<i>Whitehall Palace</i> destroyed by Fire.	85
1702	K. <i>William</i> died, <i>March 8</i> , and Q. <i>Anne</i> began	81
1702	Q. <i>Anne</i> proclaimed War against <i>France</i> , <i>May 4</i> .	81
1703	A great and terrible Wind, <i>Nov. 26</i> and <i>27</i> .	80
1704	<i>Gibraltar</i> taken by the <i>English</i>	79
1707	<i>England</i> and <i>Scotland</i> united, <i>May 1</i> .	76
1710	Riots and great Disturbances in <i>England</i> .	73
1714	Q. <i>Anne</i> died <i>August 1</i> . and K. <i>George I.</i> began	69

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1783.

C H R O N O L O G Y.

41

A.D.

Years
since.

1715	A Rebellion in <i>Scotland</i> and <i>Lancashire</i> suppressed	68
1716	A great Frost in the Beginning of this Year	67
1718	The <i>Spanish</i> Fleet destroyed by Admiral <i>Byng</i> .	65
1719	A surprizing Meteor seen, <i>March</i> 19, at 8 at Night	64
1719	Mr. <i>Flamsteed</i> , a celebrated Astronomer died <i>Dec.</i> 31.	64
1727	The incomparable Sir <i>Isaac Newton</i> , died <i>Mar.</i> 20.	56
1727	K. <i>George</i> I. died, <i>June</i> 11, and K. <i>George</i> II. began	56
1736	The Prince and Princess of <i>Wales</i> married, <i>Ap.</i> 27.	47
1739	Letters of Marque published in <i>London</i> against the <i>Spaniards</i> , <i>July</i> 16.	44
1739	War declared by <i>Great Britain</i> against <i>Spain</i> .	44
1739	<i>Porto-Bello</i> taken and destroyed by Admiral <i>Vernon</i> .	44
1740	A very severe Frost from <i>Dec.</i> 25, to <i>Feb.</i> 27.	43
1742	A Comet appeared from <i>Feb.</i> 18, to <i>March</i> 14.	41
1743	A splendid Comet appeared from <i>December</i> 23, to <i>February</i> 18, in ♄	40
1744	<i>March</i> 4, <i>France</i> declared War against <i>England</i> ; and <i>March</i> 31, <i>England</i> declared War against <i>France</i> .	39
1745	<i>Cape Breton</i> taken from the <i>French</i> , <i>June</i> 16.	38
1746	The <i>Scotch</i> Rebels defeated by the Duke of <i>Cum-</i> <i>berland</i> , at <i>Culloden</i> , near <i>Inverness</i> , <i>April</i> 16.	37
1748	A General Peace signed <i>October</i> 7.	35
1749	<i>Cape Breton</i> restored to the <i>French</i> .	34
1750	The <i>British</i> Fishery established.	33
1751	The Prince of <i>Wales</i> died <i>March</i> 20.	32
1752	The Date and Calendar altered.	31
1755	<i>Lisbon</i> destroyed by an Earthquake, <i>Nov.</i> 1.	28
1756	<i>England</i> declared War against <i>France</i> , <i>May</i> 18.	27
1756	The Island <i>Minorca</i> taken by the <i>French</i> , <i>June</i> 27.	27
1757	Count <i>Brown</i> defeated by the King of <i>Prussia</i> near <i>Prague</i> , <i>May</i> 6.	26
1757	The King of <i>Prussia</i> defeated by Count <i>Daun</i> at <i>Collin</i> , <i>June</i> 18.	26
1758	The <i>French</i> defeat, at <i>Crowell</i> by P. <i>Ferdinand</i> , <i>June</i> 23	25
1758	Lord <i>Howe</i> slain, <i>July</i> 6, and Gen. <i>Abercrombie</i> repulsed at <i>Ticonderoga</i> , <i>July</i> 8.	25
1758	<i>Cape Breton</i> taken by the <i>English</i> , <i>July</i> 26.	25

A.D.

Years
since.

- 1758 The *Russians* defeated at *Zorndorff* by the King of *Prussia*, Sept. 25.
- 1759 The Island of *Guadalope* taken by Gen. *Barrington* and Commodore *Moore*, May 1.
- 1759 The *French* defeat. at *Minden* by P. *Ferdinand*, Aug. 1.
- 1759 The King of *Prussia* defeated at *Cunnersdorff* by the Count de *Soltikoff*. August 12.
- 1759 Gen *Wolf* slain, though victorious, Sept. 13, and *Quebec* taken Sept. 18, by Gen. *Townshend*.
- 1760 *Montreal* taken by Gen. *Amherst*, Sept. 8.
- 1760 K. *Geo. II.* died Oct. 25, and *Geo III.* succeeded.
- 1761 *Pondicherry* taken by Col. *Coote*, Jan. 15.
- 1761 K. *George III.* married Q. *Charlotte*, Sept. 8.
- 1761 K. *George III.* crowned, Sept. 22.
- 1762 The Island of *Martinico* taken by Gen. *Monckton* and Adm. *Rodney*, Feb. 14.
- 1762 *George Prince of Wales* born, August 12.
- 1762 The *Havannah* taken by Lord *Albemarle* and Sir *George Pocock*, August 12.
- 1763 A general Peace in all *Europe*.
- 1763 Pr. *Frederick*, Bishop of *Osnaburgh*, born Aug. 16.
- 1765 Prince *William-Henry* born August 21.
- 1766 Princess *Charlotte-Augusta-Matilda* born Sept. 29.
- 1767 Prince *Edward* born Nov. 2.
- 1768 Princess *Augusta-Sophia* born Nov. 8.
- 1770 Princess *Elizabeth* born May 22.
- 1771 Prince *Ernest-Augustus* born June 5.
- 1772 *Swedes* resign their Liberties to the King.
- 1773 Prince *Augustus-Frederick* born Jan. 27.
- 1773 The Light Gold recoined.
- 1774 Prince *Adolphus Frederick* born Feb. 24.
- 1775 War commenced against the *North-Americans*.
- 1776 Princess *Mary* born April 25.
- 1776 The *Americans* declare themselves independent.
- 1777 Princess *Sophia* born Nov. 3.
- 1778 The *French* sign a Treaty with the *Americans*.
- 1778 War begun against the *French*.
- 1779 Prince *Ottavius* born Feb. 23.
- 1779 War commenced against the *Spaniards*.
- 1780 War against the *Dutch* begun.

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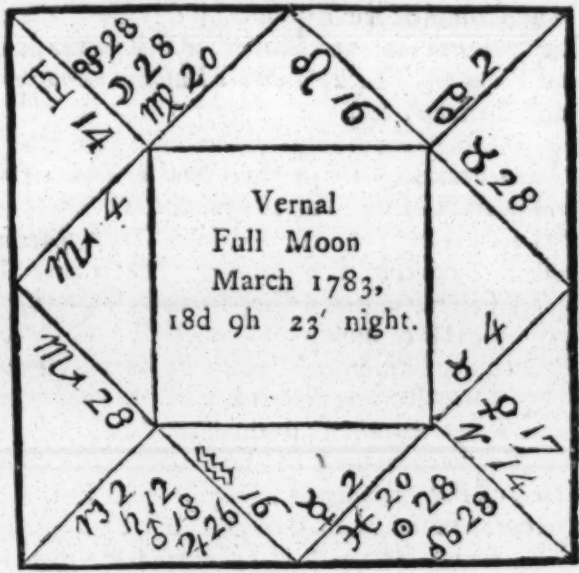
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Years
since.

1783.

ASTROLOGICAL REMARKS.

43

The Configuration of the Heavens at the Time of the Vernal Full Moon this Year, will be as follows :



The Spring Quarter begins this Year on the 20th Day of March, at about 2 min. past Five o'Clock in the Afternoon ; at which Time 20° of Virgo is on the Ascendant, and 18° of Gemini on the Mid-heaven, and the ☽ is departing from a ☐ ♄ to ☐ ♃ and ☿ ; and two Days preceding the Vernal Equinox, happens the Vernal Full Moon, which two Circumstances will in some Degree counteract each other. At the Vernal Full Moon, the Face of the Heavens appears as in the above Diagram, if my Tables are true, and I believe there are none better, as they have been proved for many Years past, to answer most accurately.

At the Vernal Full Moon as above, you find 4° of ♍ is on the Ascendant, and 16° of Leo on the Mid-heaven ; ♄ ♃ and ☿ are in the 3d House, ☿ in the 4th, the ☉ in the 5th, and ♀ in the 6th ; so that we find all the Planets sub Terra, except the Moon,

Moon, who is posited in the 11th House. At this Full Moon, there will happen a great and total Eclipse of her, as you may see by adverting to the Type and Time in Page 36. As this Eclipse happens in the 11th House, with some other corroborating Circumstances at the Equinox, it signifies Loss of Friends, and Disappointment in our Hopes and Expectations; shews Deceit and Want of Fidelity of Ministers and Counsellors, about Kings, Princes, &c.

It foreshews Scarcity of Corn and Fruits, and a Danger of a raging Pestilence, in those Places signified by μ and χ . It also signifies Death of Women, Vexations and Melancholy to many People; a general Rot amongst Sheep and Rabbits in England. It indicates, according to the Ancients, Frost and thick foggy Weather, unwholesome Air; and, according to Lilly's Aphorisms Banishment of great Men; Poverty, and Death of great Cattle, and Mortality of old People, Strife and Debate, and many tedious Law-suits.

The Lord of the Ascendant being situated in the 3d House, and lately separated from a δ of h , and applying to a δ of μ ; and h is very soon beheld by a square Aspect of the \odot , we may gather from hence, that Things will bear but a four Aspect about this Time; and great Divisions, Uproars, and Disputes, will happen among Statesmen and Princes, which will disturb that Peace and Harmony which ought to subsist amongst us. The Effects of this Full D and Eclipse will continue nearly the whole Year. But some will despise and endeavour to ridicule the Influence of the celestial Bodies; nay, and almost of the Deity himself, to which I shall only reply,

“ Adeo infelix est Eruditio scire,

“ Quod multi nesciunt periculoso

“ Etiam, intelligere quod omnes ignorant!”

CONTINUATION from last Year.

Of their SCINTILLATION, or TWINKLING.

Their Scintillation is that Pathos, by which they are particularly distinguished from the Planets, for the Planets have no such Vibration, Twinkling, or Glimmering of Light; but generally all the fixed Stars, more or less; and at some Times more than at others, especially (fante Euro) while the Wind blows Easterly, as Schickardus (in Astroscop) observes. The Cause of this their Scintillation is variously discoursed of, both by Philosophers and Astronomers. Aristotle, among the Ancients (l. 1. poster. c. 13.) assigns the Cause thereof to their Remoteness from our Sight, by which they are weakly, and as it were by a trembling Weariness reached; which Opinion Pontanus following, thus asserts the same in his Urania, l. 2.

“ Scilicet alta illis regio, sedesque repostæ,

“ Quo postquam advenit de fesso lumine visus,

“ Defessus tremit ipse, tamen tremere ipsa videntur.”

But this Reason is not at all convincing; for then Jupiter and Saturn, by Reason of their great Distance should in some Proportion affect our Sight with such a Kind of Tremor or Scintillation; which yet we find they do not in their greatest Altitude. Blancanus (in Sphæra Mundi) ascribes the Cause thereof only to Refraction; and therefore (says he) Sirius and Procyon twinkle or glimmer more than any of the rest, because they never ascend beyond 45° above the Horizon: But then, why does not Jupiter, which is nearer to us (especially when within the Limits of Refraction) do the like? Schickardus is much of the same Opinion, and conceives this Phenomenon to arise from the unequal Superficies of the fluctuating Air or Medium, as Stones in the Bottom of a River, by the rapid Course of the Water, seem to have a kind of tremulous Motion, which is only in the crisped and uneven Undulation of the Stream. But if this Reason were true, not only the fixed Stars, but the Planets, nay the Moon itself would be liable to the like Scintillation. Gassendus more probably conceives this Scintillation of the fixed Stars to proceed from that native and primogenial Light they

are

are endued with, like that of the Sun; sparkling, and casting forth such quick darted Rays, as our weaker Sight cannot behold without that trembling Passion. To which likewise may be added, the most swift and quick Motion of theirs about their own Axis, by that Means making a more sudden and nimble Variation in those radiant Objects than the Eye can pursue. From which Opinion yet the learned Scheinerus, in his Mathematical Disquisitions, clearly dissents. The Scintillation of the Stars (says he) is not their proper Revolution or Convolution, not any intern exultating Commotion; no tremulous revibrating of the Sun-beams, proceeding from their first or second Motions; no unquiet or unequal Ejaculation of their proper Radii; no Tremor of the wearied Sight; not any of these, nor all of these; but the only and sole Intercession of their several Species falling upon the Eye, occasioned by the unquiet Intercursation of Vapours variously affected. But this Reason of his will not satisfy the more curious Hevelius, who yet allows that of their Circumgyration about their proper Axis, instanced by Gassendus, yet only as an adjuvant, not the sole Cause of their Scintillation; he imputing it rather to a constant Evibration of lucid Matter, or a continual Expiration of fiery Vapours and Effluvia from those celestial Bodies, in the same Manner as we perceive those Fulgurations and Ebullitions in the Body of the Sun; which by how much the grosser, and in greater Plenty they are ejaculated, by so much the greater and more signal Scintillation is caused by them. And with this Reason, and that of Gassendus, we may reasonably rest satisfied, until further Observation and Inquisition shall produce one more convincing. As to

THEIR NUMBER.

If we look to those only which are most notable and visible, as being reduced to the six vulgar Degrees of Magnitude, we shall find them, according to Ptolomy's Computation, to amount to but 1022. Pliny, yet (l. 2. c. 4.) reckons them to be 1600. But if we reflect upon the absolute Number of all the Stars in the Firmament, we may conclude them (though not with Jordanus Branus to be infinite, yet) to be innumerable, at least by human Calculation, either as looked upon by the bare Eye
only,

only, or by the Help of a Telescope; by the Means of which last Galileo (in Nuncio Sidereo) reports, that he discovered in the cloudy Star in Orion, no less than 21 others; in the nebulous Star in the Præsepe, or Manager, 36; in the Asterism of the Pleiades, above 40; in the Space between the Girdle and Sword of Orion, no less than 80; and within little more than the Space of one Degree in the Constellation of Orion, above 500 Stars; by which numerous Discovery he was deterred from making out and describing that Constellation, which he had particularly intended to have done. Reitha likewise, (in suo Radio Sydereomystic, p. 197.) affirms, that he observed in the same Constellation above 2000 Stars. Whereupon Ricciolus thus argues, that if the Constellation of Orion takes up in the Heavens the Space of 500 square Degrees, as it is found to do; and that every square Space, whose Side is but 2 Degrees, shall contain no less than 500 Stars, according to the Observation of Galileo before mentioned, there will be found in the whole Constellation of Orion, at least 62500 Stars; whereas, looked upon by the bare Eye only, there appear not therein above 63 Stars. According to which Proportion if the rest of the Constellations were examined, and the Difference computed of the Number of the Stars appearing by the Telescope over and above those discerned by the naked Eye; there might be reckoned above Ten hundred thousand Stars, besides those in the Via lactea. Nay, if one should reckon them above Twenty hundred thousand, "*mihi quidem nihil inopinabile finxerit,*" (says Ricciol. Almagest. Nov. tom. 1. l. 6. p. 413.

Some of the Jewish Doctors reckon not above 12000 Stars in all; but those of the Cabala, no less than 29000 Myriads; which Number Schickardus conceives to be too transcendent, and believes that the whole Area of the Heavens would not receive above 26712 Myriads, though they were placed contiguous to one another, and but 1" of a Minute allowed for the Space that every one should take up. But, as to this Particular, conclude we rather with Schottus in Prælus in Firmament Itiner. Extatic. Kircheri in Schol. 1. "*Punctum est Terra quam incolimus, &c.*" This Globe of the Earth which we inhabit, which we harraßs with so many Armies, so many warlike Fleets,

Fleets, and which we divide with such insatiable Avarice, is but a Point; and yet we have not over-run every Kingdom, nor penetrated every Region thereof, although enriched with the Accession of America. There are greater Tracts from the Straits of Magellan to the Southern Pole, which be yet undiscovered. What think we then remains undetected in the vast Immensity of the Heavens, in that great Kingdom of the Almighty Creator, hardly to be approached by our weak Eyes! It is intolerable Arrogance therefore to imagine that our Sight, though never so strengthened by the Help of Telescopes, can discover all the Stars in the celestial Expansum, and extreme Folly to go about to range them within the Limits of any definite Number; that being the Work of God alone, who numbers the Multitude of the Stars, and calls them by their Names.

THEIR FIGURES.

As to their Figure, it is apparently spherical or round, maintained to be such by the Stoics and Manilius. Yet Plutarch (*De Placit. Philosoph.* l. 2. c. 14.) gives us the different Opinions of some of the Ancients; for Cleanthes held them to be pyramidal, or pointed; Anaximenes conceived them to be like Studs or Nails, fixed in the crystalline Firmament; others imagined them to be fiery or lucid Plates or Laminæ, like so many flat Pictures, not of any Thickness or Profundity; Scheinerus, and Antonius Maria de Reitha, will have them to be of divers Figures or Faces, of a polyangular Shape, and such the larger Sort of Telescopes represent them; or as Kepler, in *Epitom. Astron.* (p. 498.) describes them, like so many lucid Points or Sparks casting forth every Way their Rays of Light; so that we are to apprehend their Figure to be only physically spherical, not mathematically such; for in the first Acceptation they may be said to be round Bodies; however, according to the latter, their Superficies may be found to be uneven, and to consist of many Angles and Sides.

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